

Tide Tables 2020 – East Coast of North and South America including Greenland

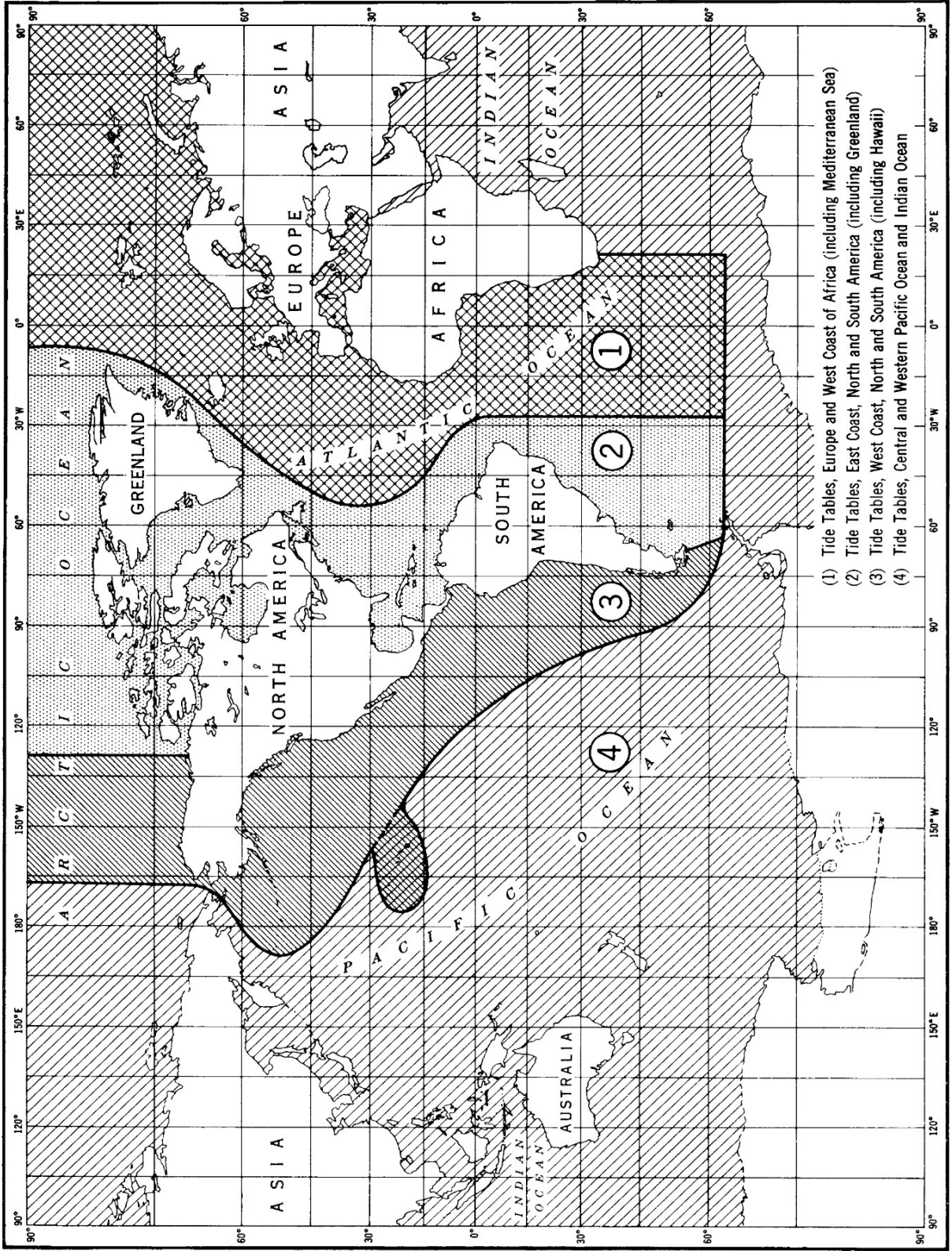
Tide Tables 2020 HIGH AND LOW WATER PREDICTIONS

East Coast of North and South America

Including Greenland



INDEX OF TIDE TABLE COVERAGE



- (1) Tide Tables, Europe and West Coast of Africa (including Mediterranean Sea)
- (2) Tide Tables, East Coast, North and South America (including Greenland)
- (3) Tide Tables, West Coast, North and South America (including Hawaii)
- (4) Tide Tables, Central and Western Pacific Ocean and Indian Ocean

Tide Tables 2020 HIGH AND LOW WATER PREDICTIONS

East Coast of North and South America

Including Greenland

Issued 2019

SOURCES OF ADDITIONAL INFORMATION

THE NATIONAL OCEAN SERVICE IS NO LONGER PRINTING AND DISTRIBUTING THE TIDE AND TIDAL CURRENT TABLES

Tide and Tidal current data continue to be updated, generated and published by the NOAA/ National Ocean Service; however, the printing and distribution in book-form is now done by several private companies working from information provided by NOS.

NOS now offers two vehicles for obtaining predictions. First, the complete set of Tables as camera-ready page-images will be available on CD-ROM. The CD-ROM vehicle is primarily intended for use by federal or private printers who wish to print in book-form the full set of Tables for distribution to resellers and the general public. Second, for domestic tide stations, predictions are available on the NOS, Center for Operational Oceanographic Products and Services (CO-OPS), website, (<http://tidesandcurrents.noaa.gov/>).

In addition to predictions, the website provides updated information on the status of the Tables as they are finalized each year. Notices concerning the most recent Table updates and publication cut-off dates are included.

For the names of companies printing and distributing the Tables, please call or write to:

National Ocean Service
Oceanographic Division, N/OPS3
1305 East-West Highway
Silver Spring, MD 20910
(301) 713-2815, fax (301) 713-4500

A list of authorized sales agents is published in the Nautical Chart Catalogs or may be obtained on request from the National Ocean Service.

TECHNICAL ASSISTANCE:

Technical questions relating to ***tide and current predictions***, as well as requests for ***special predictions***, should be addressed to:

National Ocean Service
Oceanographic Division, N/OPS3
1305 East-West Highway
Silver Spring, MD 20910
(301) 713-2815

Technical questions relating to ***actual tide observations, tidal datums, and other information necessary for engineering projects*** should be addressed to:

National Ocean Service
Oceanographic Division, N/OPS3
1305 East-West Highway
Silver Spring, MD 20910
(301) 713-2815

Technical questions relating to ***other publications and nautical charts*** should be addressed to:

National Ocean Service
Navigation Services Division
1315 East-West Highway
Silver Spring, MD 20910
(888) 990-NOAA (6622)

SOURCES OF ADDITIONAL INFORMATION

WEBSITES

Center for Operational Oceanographic Products and Services
(PORTS[®] * Predictions * Observations * Bench Marks * Tides Online * Great Lakes Online)
<https://tidesandcurrents.noaa.gov>

Marine Chart Division - <https://www.nauticalcharts.noaa.gov>

Office for Coastal Management - <https://www.coast.noaa.gov>

Ocean Predictions Center - <https://ocean.weather.gov>

National Center for Environmental Information - <https://www.ncei.noaa.gov>

National Centers for Environmental Predictions - <https://www.ncep.noaa.gov>

National Climatic Data Center - <https://www.ncdc.noaa.gov>

National Data Buoy Center - <https://www.ndbc.noaa.gov>

National Geodetic Survey - <https://www.ngs.noaa.gov>

National Geophysical Data Center - <https://www.ngdc.noaa.gov>

National Ocean Service - <https://www.oceanservice.noaa.gov>

National Oceanic and Atmospheric Administration - <https://www.noaa.gov>

National Oceanographic Data Center - <https://www.nodc.noaa.gov>

National Weather Service - <https://www.weather.gov>

U.S. Coast Guard - <https://www.uscg.mil>

U.S. Geological Survey - <https://www.usgs.gov>

U.S. Naval Observatory - <https://www.usno.navy.mil>

U.S. Naval Oceanographic Office - <https://www.usno.navy.mil/NAVO>

CORRECTIONS:

Corrections to this publication, after the date of printing, may appear in the Notice to Mariners. They may also appear in the Local Notice to Mariners, published weekly, by the various United States Coast Guard Districts.

CONTENTS

	Page
Index map of tide table coverage	inside front cover
Astronomical data	inside back cover
Important notices	VII
Introduction	XIII
List of reference stations	XIV
Table 1. — Daily tide predictions.	
Explanation of table	1
Typical tide curves	3
Daily predictions for reference stations	4
Table 2. — Tidal differences and other constants.	
Explanation of table	321
Tidal differences and other constants	324
Table 3. — Height of tide at any time.	
Explanation of table	369
Height of tide at any time	371
Table 4. — Local mean time of sunrise and sunset.	
Explanation of table	373
Sunrise and sunset	374
Table 5. — Reduction of local mean time to standard time	383
Table 6. — Moonrise and moonset.	
Explanation of table	385
Moonrise and moonset	386
Table 7. — Conversion of feet to centimeters	393
Table 8. — Tide prediction accuracy	395
Table 9. — Lowest / highest astronomical tide and other tidal datums	397
Publications relating to tides and tidal currents	399
Official U.S. Datums	400
Glossary of terms	401
Index to stations	407

IMPORTANT NOTICES

For the most part, tide predictions for U.S. reference stations are based upon analyses of tide observations for periods of at least one year. Since the extremes of meteorological conditions have been excluded from the analyses and predictions, the predicted tidal heights should be considered as those expected under average weather conditions. During times when weather conditions differ from what is considered average for the area, the mariner must take note of the corresponding differences between predicted levels and those actually observed. Generally, prolonged onshore winds or a low barometric pressure can produce higher levels than predicted, while the opposite can result in lower levels than those predicted.

Exclusive of weather conditions, the astronomical tide is subject to range variations which should be noted. Decreased ranges may be expected near the times when the Moon is in apogee (apogean tides) or in quadrature (neap tides), and increased ranges may be expected when the Moon is in perigee (perigean tides) or in a new or full position (spring tides). A larger diurnal range may also result when the Moon is in its maximum declination (tropic tides). The actual range will depend upon the extent to which combinations of these positions reinforce or detract one from the other. The effect of these astronomical lineups is included in the predictions and may be apparent upon inspection.

The mariner may be kept aware of the times of these astronomical events by referring to the astronomical data listed in this book. He should realize, however, that there is generally a time lag from a few hours to several days from the time of the astronomical event to the time of the resultant tide. During times of storm surges or when extreme weather conditions are imminent, the mariner should closely follow local weather forecasts as they relate to the effects upon the tide levels.

Effective January 1, 1989, the chart datum and tidal datum chart, for all nautical charts, bathymetric maps, and tide tables covering the east coast of the United States and areas of the Caribbean Islands were changed from mean low water (MLW) to mean lower low water (MLLW). Notice of changes in tidal datums established through the "National Tidal Datum Convention of 1980" Federal Register, vol. 45, No. 207, Thursday, October 23, 1980, p. 70296-70297.

DAYLIGHT-SAVING TIME IS NOT USED IN THIS PUBLICATION. All daily tide predictions and predictions compiled by the use of Table 2 data are based on the standard time meridian indicated for each location. Predicted times may be converted to daylight saving times, where necessary, by adding 1 hour to these data. In converting times from the Astronomical Data page on the inside back cover, it should be remembered that daylight saving time is based on a meridian 15° east of the normal standard meridian for a particular place.

NOS, in partnership with other agencies and institutions, has established a series of Physical Oceanographic Real Time Systems (PORTS®) in selected areas. These PORTS® sites provide constantly updated information on tide and tidal current conditions, water temperature, and weather conditions. This information is updated every six minutes. PORTS® sites are currently in operation at several major harbors with future sites to be added. The information is accessible through a computer data connection or by a voice response system at the following sites:

PORTS® SITES	VOICE ACCESS	INTERNET ACCESS
CAPE COD	Not Available	www.tidesandcurrents.noaa.gov
CHARLESTON HARBOR	855-216-2137	"
CHERRY POINT	888-817-7794	"
CHESAPEAKE BAY	866-CH-PORTS (866-247-6787)	"
CORPUS CHRISTI	866-728-1897	"
CUYAHOGA	800-376-1192	"
DELAWARE RIVER & BAY	866-30-PORTS (866-307-6787)	"
HOUSTON/GALVESTON	866-HG-PORTS (866-447-6787)	"
HUMBOLDT BAY	855-876-5015	"
JACKSONVILLE	855-901-1549	"
LAKE CHARLES	888-817-7692	"
LOS ANGELES/ LONG BEACH	Not Available	"
LOWER COLUMBIA RIVER	888-53-PORTS (888-537-6787)	"

IMPORTANT NOTICES

PORTS® SITES	VOICE ACCESS	INTERNET ACCESS
LOWER MISSISSIPPI RIVER	888-817-7767	www.tidesandcurrents.noaa.gov
MATAGORDA BAY	888-524-9765	“
MIAMI	888-270-6145	“
MORGAN CITY	888-312-4113	“
MOBILE BAY	877-84-PORTS (877-847-6787)	“
NARRAGANSETT BAY	866-75-PORTS (866-757-6787)	“
NEW HAVEN	888-80-PORTS (888-807-6787)	“
NEW LONDON	855-626-0509	“
NEW YORK/NEW JERSEY	866-21-PORTS (866-217-6787)	“
PASCAGOULA	888-257-1857	“
PORT EVERGLADES	866-213-5269	“
PORT FOURCHON	855-687-2084	“
PORT OF ANCHORAGE	866-AK-PORTS (866-257-6787)	“
SABINE NECHES	888-257-1859	“
SAN FRANCISCO BAY	866-SB-PORTS (866-727-6787)	“
SAVANNAH	855-907-3136	“
SOO LOCKS	301-713-9596	“
TACOMA	888-60-PORTS (888-607-6787)	“
TAMPA BAY	866-TB-PORTS (866-827-6787)	“
TOLEDO	888-547-9131	“



PUBLISHED CAUTIONARY NOTICES

Published in Local Notice to Mariners and United States Coast Pilot Notices

NOAA is discontinuing the printed Tide Tables and Tidal Current Tables publications

Due to the availability of electronic predictions products, NOAA is ending the production of the printed Tide Tables and Tidal Current Tables publications. This, the final printed edition, will provide tide and tidal current predictions for the calendar year 2020.

NOAA and its predecessor agencies have produced and distributed predictions of high and low tides at ports along the U.S. coastline since 1867, and times/speeds of tidal currents since 1920. These predictions are currently produced in the form of six (6) annual publications, which are distributed through licensed commercial publishers.

NOAA is discontinuing the production of these annual publications due to: (a) Recent changes by the U.S. Coast Guard in the interpretation of the requirements for predictions, no longer requiring these publications in paper format. (b) The availability of online and electronic services providing tide and tidal current predictions which meet the U.S. Coast Guard requirements for navigation, and support other activities along the U.S. coast.

Tide and Tidal Current predictions are available through NOAA's Center for Operational Oceanographic Products and Services (CO-OPS) online services:

IMPORTANT NOTICES

- NOAA Tide Predictions: https://tidesandcurrents.noaa.gov/tide_predictions.html
- NOAA Current Predictions: <https://tidesandcurrents.noaa.gov/noaacurrents/Regions>

These online services provide predictions which equal or exceed the accuracy and availability of the predictions at domestic locations provided through printed publications, and provide additional capabilities allowing the predictions to better meet a variety of different user needs. These online services will provide predictions for locations for the U.S. coasts, and areas in which NOAA has some responsibility or authority. International predictions, previously provided by agencies in other countries for use in the printed publications, will not be available from the online services. Predictions for countries outside the U.S. may be obtained through the Oceanographic / Hydrographic agency in that country.

Contact NOAA's Center for Operational Oceanographic Products and Services (CO-OPS) with questions or for further information.

E-mail: Tide.Predictions@noaa.gov

Phone: 301-713-2815

(Issued: October 1, 2019)

DAILY TIDE PREDICTIONS UPDATED FOR CUBA

In 2016, the NOAA/National Ocean Services', Center for Operational Oceanographic Products and Services (CO-OPS) started an exchange of daily tide predictions with Servicio Hidrografico y Geodesico de La Republica de Cuba. As a result of this exchange of information, the Tide Tables – East Coast of North and South America will now include daily tide predictions for four reference stations in Cuba, beginning with the 2017 Tide Tables.

Havana; Moa, Holguin; Santiago de Cuba; Bahia de Cienfuegos

Tide predictions at these stations will be updated annually. As the exchange of tide prediction information between NOAA and authorities in Cuba matures, it is expected that subordinate stations along the coast of Cuba will be updated and there may be some changes in the stations at which daily predictions are provided. Mariners should expect changes to the tide predictions provided in Cuba for several years. It is anticipated that most of these changes will be to the subordinate stations provided.

For additional information, please contact CO-OPS via e-mail at Tide.Predictions@noaa.gov or (301) 713-2815.

(Issued: October1, 2016)

OBSERVED TIDAL CONDITIONS DIFFER FROM TIDAL PREDICTIONS IN THE HUDSON RIVER

The observed tides along the Hudson River have been reported to differ significantly from the published tide predictions; particularly in the northern section of the river from Newburgh to Albany, New York. Based on limited reports and comparisons to USGS stream gauges, it appears that high tides are occurring approximately 1 hour earlier than predicted.

NOAA has no information on what may be causing the difference between predictions and observations. This could be the result of natural changes (shoaling, erosion, etc) or artificial changes (dredging, construction, etc) in the Hudson River. Based on preliminary evidence, this does not appear to be a temporary condition and may indicate a long term change in the tidal conditions of the Hudson River.

IMPORTANT NOTICES

NOAA does not have any water level stations operating along the length of the Hudson River, with the nearest operating station being located at The Battery, New York. Without observational data in the area, the extent of the difference between predictions and observations cannot be confirmed; neither can the areas affected by this change. Resources are not available for the installation and operation of water level stations along the Hudson River.

Mariners operating in this area are urged to use caution.

(Issued: May 24, 2010)

TIDAL CURRENT PREDICTIONS INSIDE U.S. ESTUARIES

At present there are several U.S. estuaries with operational Physical Oceanographic Real Time Systems (PORTS) installed. PORTS systems are presently being installed in several additional estuaries. Over the next ten years there are projected to be twenty or more additional systems installed. In the past, the tidal current reference station has always been located at the entrance to each estuary. All tidal current secondary stations both inside and outside (along the coast) have been referred to the reference station at the entrance to the estuary. This will no longer be the case in estuaries with an operational PORTS system.

Estuaries with an operational PORTS system will have at least two reference stations. One will be the historic station at the entrance to the estuary. All secondary stations along the coast will continue to be referred to this station. The second tidal current reference station will be the primary PORTS station within the estuary. All secondary locations within the estuary itself will be referred to this location. Depending on the circulation dynamics of the estuary, daily tidal current predictions may be provided for one or more additional stations within the estuary.

(Issued October 1, 1999)

ARANSAS PASS – CORPUS CHRISTI BAY, TX

The Aransas-Corpus Christi Pilots have reported that published tidal current predictions for Aransas Pass deviate from observations by as much as two (2) hours. The published predictions must be used with extreme caution. The Pilots should be consulted for critical transits. Tidal Current predictions of the National Ocean Service (NOS) are derived from analysis of observed data at tidal harmonic frequencies which in turn are based on predictable astronomic positions of the moon and sun. The problem in many areas of the Gulf of Mexico, including the south Texas coast, is that localized meteorological conditions can significantly effect and alter the times of maximum flood and ebb currents. Real-time observation and reporting systems, such as the Physical Oceanographic Real Time System (PORTS) installed in the Galveston-Houston area, are the only means of providing accurate tidal current data for areas such as this.

(Issued July 17, 1997)

BISCAYNE BAY/PORT OF MIAMI, FL

The Biscayne Bay Pilots report that recent dredging and construction by the US Corps of Engineers (COE) supporting Miami port expansion has significantly effected the currents in Miami Harbor. Both flood and ebb currents should be expected to be stronger than indicated in official published predictions. The actual times for maximum and slack currents should be expected to deviate from the published predictions. Funding to support a survey to obtain new data for more accurate tidal current predictions is not available at this time. Installation of a Physical Oceanographic Real Time System (PORTS), like the one in operation in Tampa Bay, would be the best solution for long term marine safety.

(Issued July 17, 1997)

IMPORTANT NOTICES

CHARLESTON HARBOR, SC

The US Army Corps of Engineers (CEO) is planning dredging and construction projects for Charleston Harbor in 1996-1997. Such projects in the past in other areas have resulted in dramatic changes in the observed tidal currents of those areas. Once dredging and/or construction operations commence, the Tidal Current predictions for this region should be considered questionable and potentially dangerous to rely upon. Tide predictions will also be affected but to a lesser degree. Funding for a real time system to monitor the Tidal Currents and a resurvey of the area after COE operations are complete is presently not available. Therefore, once COE operations begin and until such time as a real-time system is installed or a resurvey of the area conducted, the National Oceanic and Atmospheric Administration, National Ocean Service will be unable to provide accurate Tidal Current predictions necessary for marine safety and navigation in this area.

(Issued June 5, 1996)

CHESAPEAKE & DELAWARE CANAL AND BALTIMORE HARBOR CONNECTING CHANNELS

The US Army Corps of Engineers (COE) is planning a project involving the Chesapeake & Delaware Canal (C&D) and the channels in the upper Chesapeake Bay connecting the canal to Baltimore, MD in 1996-1997. Such projects in the past in other areas have resulted in dramatic changes in the observed tidal currents of those areas. Once the project begins, the Tidal Current predictions for the C&D Canal and the channels connecting the canal to Baltimore should be considered questionable and potentially dangerous to rely upon. Tide predictions will be affected but to a lesser degree. Funding for a real-time system to monitor the Tidal Currents and a resurvey of these areas after COE operations are complete is presently not available. Therefore, once COE operations begin and until such time as a real-time system is installed or a resurvey of the area conducted, the National Oceanic and Atmospheric Administration, National Ocean Service will be unable to provide accurate Tidal Current predictions necessary for marine safety and navigation in this area.

(Issued June 5, 1996)

ST. AUGUSTINE, FL – ATLANTIC INTRACOASTAL WATERWAY

The US Coast Guard (USCG) has reported a problem involving the Tidal Currents in the Atlantic Intracoastal Waterway (AICW) in the St. Augustine, FL area. The specific location is the Bridge of Lions over the waterway. Numerous accidents have occurred at this site which are related to the currents in the waterway. There is no National Ocean Service (NOS) Tidal Current Station at or near the Bridge of Lions. Thus the NOS cannot, at this time, make Tidal Current predictions for this location. The USCG states that the cause of the accidents is loss of maneuverability (control) as a vessel passes under the bridge. The loss of maneuverability results in the vessel striking the bridge supports. The USCG states in part:

“The affect of a ‘fair’ tide on a navigating vessel is to reduce the vessel’s ability to maneuver. When a vessel is proceeding with a current (fair tide), less water flows across the vessel’s rudders. This condition has the affect of reducing the vessel’s maneuverability for a given speed over ground (all other things being equal).

The Bridge of Lions is a difficult bridge to navigate, even under ideal conditions. This circa 1926 Bascule bridge has a horizontal clearance of only 76’ verses the 90’ horizontal clearance of most of the other bridges on this section of the AICW.”

In addition, according to the US Coast Pilot, Vol 4, Chapter 12, Tidal Currents in excess of 2 knots often run at right angles to the bridge opening. The Coast Pilot advises mariners to transit the bridge at minimal Tidal Current conditions. Funding for real-time monitoring of the Tidal Currents or a survey to obtain Tidal Current observations upon which to base Tidal Current predictions for this location is not presently available. A consortium of local, state, and federal officials in conjunction with the private sector and commercial shipping interests are presently studying various options to provide accurate Tidal Current predictions necessary for marine safety and navigation at this location.

(Issued June 5, 1996)

IMPORTANT NOTICES

WILMINGTON AND CAPE FEAR RIVER, NC

The US Army Corps of Engineers (COE) is due to begin dredging operations in the Wilmington and Cape Fear River area in 1997. The plans call for the deepening of the channel approaching Wilmington and extending up the Cape Fear River. Such actions in the past in other areas have resulted in dramatic changes in the observed tidal currents of those areas. Once dredging operations commence, the Tidal Current predictions for this region should be considered questionable at best and potentially dangerous to rely upon. Tide predictions will also be affected but to a lesser degree. Funding for a real-time system to monitor the Tidal Currents during the project and a resurvey of the area after COE operations are complete is presently not available. Therefore, once COE operations begin and until such time as a real-time system is installed or a resurvey of the area conducted, the National Oceanic and Atmospheric Administration, National Ocean Service will be unable to provide accurate Tidal Current predictions necessary for marine safety and navigation in this area.

(Issued June 5, 1996)

HAMPTON ROADS, VA

Tidal currents in Hampton Roads and Elizabeth River have been significantly altered by dredging and construction of a new bridge/tunnel. Recent dredging by the U.S. Army Corps of Engineers has deepened the channels by 10 feet to a depth of 50 feet. Pilots and officials at the Norfolk Naval Base report hazardous conditions including significantly higher than predicted maximum current velocities, and significant deviation in the predicted times of maximum current. Mariners should exercise EXTREME CAUTION and DISCRETION in the use of published NOS tidal current predictions for this area. Funding for a Quality Assurance study and a full scale resurvey of the area is presently not available.

(Issued March 24, 1992)

CHINCOTEAGUE CHANNEL, VA

United States Coast Guard (USCG) Personnel at the Chincoteague Coast Guard Station, VA report that the times of high and low water computed from differences in Table 2 of the East Coast Tide Tables are frequently off by as much as an hour. The channel is subject to shoaling and is frequently dredged. Exercise caution in using Table 2 Tide differences for this area.

(Issued May 17, 1991)

INTRODUCTION

Tide tables for the use of mariners have been published by the National Ocean Service (formerly the Coast and Geodetic Survey) since 1853. For a number of years these tables appeared as appendixes to the annual reports of the Superintendent of the Survey, and consisted of detailed instructions enabling the mariner to make his own prediction of tides as the occasion arose.

The first tables to give predictions for each day were those for the year 1867. They gave the times and heights of high waters only and were published in two separate parts, one for the Atlantic coast and the other for the Pacific coast of the United States. Together they contained daily predictions for 19 stations and tidal differences for 124 stations. A few years later predictions for the low waters were also included, and for the year 1896 the tables were extended to include the entire maritime world, with full predictions for 70 ports and tidal differences for about 3,000 stations.

The tidal tables are now issued in four volumes, as follows: *Europe and West Coast of Africa (including the Mediterranean Sea)*; *East Coast of North and South America (including Greenland)*; *West Coast of North and South America (including the Hawaiian Islands)*; *Central and Western Pacific Ocean and Indian Ocean*. Together, they contain daily predictions for more than 250 reference ports and differences and other constants for more than 6,500 stations.

This edition of the Tide Tables, *East Coast of North and South America*, contains full daily predictions for more than 70 reference ports and differences and other constants for more than 2,500 stations in North America, South America, and Greenland. It also contains a table for obtaining the approximate height of the tide at any time, a table of local mean time of sunrise and sunset for every 5th day of the year for different latitudes, a table for the reduction of local mean time to standard time, a table of moonrise and moonset for 8 places, a table of the Greenwich mean time of the Moons' phases, apogee, perigee, greatest north and south and zero declination, and the time of the solar equinoxes and solstices, and a glossary of terms.

Up to and including the tide tables for the year 1884, all the tide predictions were computed by means of auxiliary tables and curves constructed from the results of tide observations at the different ports. From 1885 to 1911, inclusively, the predictions were generally made by means of the Ferrel Tide-predicting machine. From 1912 to 1965, inclusively, they were made by means of the Coast and Geodetic Survey tide-predicting machine No. 2. Since 1966, predictions have been made by electronic computer.

In the preparation of these tables all available observations were used. In some cases, however, the observations were insufficient for obtaining final results. As further information becomes available it will be included in subsequent editions. All persons using these tables are invited to send information or suggestions for increasing their usefulness to the National Ocean Service, Oceanographic Division, 1305 East-West Highway, N/OPS3, Silver Spring, Maryland 20910, U.S.A.

The information presented in *Table 4 - Local mean time of sunrise and sunset* and in *Table 6 - Moonrise and Moonset* is computed by the National Ocean Service using the Interactive Computer Ephemeris Program provided by the United States Naval Observatory.

In accordance with cooperative arrangements between the National Ocean Service and the authorities listed below, predictions for the following stations appear in this issue:

Canadian Hydrographic Service.—Harrington Harbour, Quebec, Halifax, St. John, Pictou, and Argentia.

Directoria de Hidrografia e Navegacao, Brazil.—Recife, Rio de Janeiro, and Santos.

Servicio Hidrografico, Argentina.—Buenos Aires, Puerto Ingeniero White, Comodoro Rivadiva, and Punta Loyola.

LIST OF REFERENCE STATIONS

Station Name	Page	Datum below mean sea-level	Updated	Data Series
Albany, New York.....	80	2.49	1966	3 years (1984-1987)
Amuay, Venezuela	280	0.65		
Apalachicola, Florida	192	0.92	1999	3 years (1995-1997)
Argentina, Newfoundland	4	4.30		
Atlantic City, New Jersey.....	88	2.23	2006	5 years (1999-2003)
Baltimore, Maryland	108	0.82	2001	5 years (1994-1998)
Bar Harbor, Maine	32	5.71	2003	5 years (1992-1996)
Bayonne Bridge, Staten Island, New York	76	2.78	1999	4 years (1990-1991,1994-1995)
Boston, Massachusetts	40	5.22	2001	5 years (1994-1998)
Breakwater Harbor, Delaware	92	2.27	2001	5 years (1994-1998)
Bridgeport, Connecticut.....	64	3.61	2001	5 years (1994-1998)
Buenos Aires, Argentina.....	304	2.60		
Cape Hatteras, North Carolina	132	1.65	1998	4 years (1988-1991)
Cedar Key, Florida	184	2.03	2003	5 years (1992-1997)
Charleston, South Carolina	144	2.95	2003	5 years (1996-2000)
Charlotte Amalie, St. Thomas Island.....	268	0.38	2002	8 years (1984-1991)
Chesapeake Bay Bridge Tunnel, Virginia.....	116	1.45	2006	5 years (1999-2003)
Cienfuegos, Cuba.....	244			
Comodoro Rivadavia, Argentina	312	10.30		
Cristobal (Colon), Panama	232	0.38		
Dauphin Island, Alabama	200	0.57	1998	4 years (1993-1996)
Duck Pier, North Carolina.....	124	1.81	2003	5 years (1996-2000)
Eastport, Maine	28	9.71	2001	5 years (1994-1998)
Fernandina Beach, Amelia River, Florida.....	152	3.35	2003	3 years (1998-2000)
Galveston (Galveston Channel), Texas	216	0.82	2006	5 years (1999-2003)
Grand Isle (East Point), Louisiana.....	212	0.56	2006	5 years (1999-2003)
Halifax, Nova Scotia	20	4.30		
Hampton Roads (Sewells Pt.), Virginia	120	1.38	2002	5 years (1995-1999)
Harrington Harbour, Quebec.....	12	3.50		
Havana, Cuba	248			
Isla Zapara (Malecon), Venezuela	276	2.70		
Key West, Florida	172	0.92	2003	5 years (1996-2000)
Kings Point, Long Island, New York.....	68	3.87	2006	5 years (1999-2003)
Lime Tree Bay, St. Croix Island.....	272	0.38	2002	3 years (1995-1997)
Magueyes Island, Puerto Rico	260	0.34	2002	3 years (1995-1997)
*Mayport, Florida	156	2.46	2019	5 years (2012-2016)
Miami, Government Cut, Florida	164	1.43	2005	2 years (1985-1986)
Moa, Holguin, Cuba.....	256			
Mobile, Alabama.....	204	0.83	2016	6 years (2008-2013)
Montauk, Fort Pond Bay, New York.....	56	1.09	2003	5 years (1996-2000)
Myrtle Beach, South Carolina.....	140	2.75	2006	5 years (1999-2003)
Nantucket, Massachusetts	44	1.79	2005	5 years (1999-2003)
*Naples, Florida.....	176	1.69	2019	5 years (2012-2016)
New London, Connecticut	60	1.55	2001	5 years (1994-1998)
New York (The Battery), New York	72	2.58	2006	5 years (1999-2003)
Newport, Rhode Island.....	52	1.77	2001	5 years (1994-1998)
Ocean City, Maryland.....	104	1.87	1999	5 years (1985-1989)
Oregon Inlet, North Carolina	128	0.66	1999	4 years (1995-1998)
Padre Island (south end), Texas	224	0.86	1998	1 year (1963)
Pensacola, Florida.....	196	0.62	2003	5 years (1996-2000)
Philadelphia, Pennsylvania	100	3.47	2006	5 years (1999-2003)
Pictou, Nova Scotia	8	3.90		

LIST OF REFERENCE STATIONS

Station Name	Page	Datum below mean sea-level	Updated	Data Series
Port Canaveral (Trident Pier), Florida	160	1.92	2003	5 years (1997-2001)
Port O'Connor, Texas.....	220	0.42	1999	29 days beginning 2/1/1989
Portland, Maine	36	4.93	2001	5 years (1993-1997)
Puerto Ingeniero White, Argentina	308	8.50		
Punta Gorda, Venezuela	284	3.30		
Punta Loyola, Argentina	316	20.30		
Quebec, Quebec	16	8.50		
Recife, Brazil	292	3.70		
Reedy Point, Delaware.....	96	2.99	2006	5 years (1999-2003)
Rio de Janeiro, Brazil	296	2.30		
Saint John, New Brunswick.....	24	14.50		
*San Juan, Puerto Rico	264	0.78	2019	4 years (2012-2016)
Sandy Hook, New Jersey	84	2.56	2006	5 years (1999-2003)
Santiago de Cuba.....	252			
Santos, Brazil	300	2.50		
Savannah River Entrance, Georgia.....	148	3.80	2003	5 years (1996-2000)
Settlement Point, Grand Bahama Island	240	1.45	2002	4 years (1986-1988,1990)
South Pass, Louisiana.....	208	0.68	1999	3 years (1989-1991)
St. Georges Island, Bermuda	236	1.35	2002	4 years (1990-1993)
St. Marks River Entrance, Florida	188	1.93	1996	358 days beginning 9/1/1970
St. Petersburg, Florida	180	1.19	2006	5 years (1999-2003)
Suriname River Entrance, Surinam.....	288	4.28		
Tampico Harbor (Madero), Mexico.....	228	0.84		
Vaca Key, Florida Bay, Florida	168	0.52	2017	6 year (2009-2014)
Washington, D.C.	112	1.56	2001	5 years (1994-1998)
Wilmington, North Carolina	136	2.33	2006	5 years (1999-2003)
Woods Hole, Massachusetts	48	1.04	2005	5 years (1999-2003)

* New or updated station

Each datum figure above represents the difference in elevation between the local mean sea (or river) level and the reference level from which the predicted heights in table 1 were calculated.

Local mean sea level datum should not be confused with the National Geodetic Vertical Datum which is the datum of the geodetic level net of the United States. Relationships between geodetic and local tidal datums are published in connection with the tidal benchmark data of the National Ocean Service.

TABLE 1.— DAILY TIDE PREDICTIONS

EXPLANATION OF TABLE

This table contains the predicted times and heights of the high and low waters for each day of the year at a number of places which are designated as *reference stations*. By using tidal differences from Table 2, one can calculate the approximate times and heights of the tide at many other places which are called *subordinate stations*. Instructions on the use of the tidal differences are found in the explanation of Table 2.

High water is the maximum height reached by each rising tide, and low water is the minimum height reached by each falling tide. High and low waters can be selected from the predictions by the comparison of consecutive heights. Because of diurnal inequality at certain places, however, there may be a difference of only a few tenths of a foot between one high water and low water of a day, but a marked difference in height between the other high water and low water. Therefore, in using the Tide Tables it is essential to note carefully the heights as well as the times of the tides.

Time.— The kind of time used for the predictions at each reference station is indicated by the time meridian at the bottom of each page. Daylight-saving time is not used in this publication. If daylight-saving time is required, add one (1) hour to the predicted time.

Datum.— The datum from which the predicted heights are recorded is the same as that used for the nautical charts of the locality. The datum for the Atlantic coast of the United States is mean lower low water (MLLW). For foreign coasts a datum approximating to mean low water springs, Indian spring low water, or the lowest possible low water is generally used. The depression of the datum below mean sea level (MSL) for each of the reference stations of this volume is given on the preceding page.

Depth of water.— The nautical charts published by the United States and other maritime nations show the depth of the water as referred to a low water datum corresponding to that from which the predicted tidal heights are recorded. To find the actual depth of water at any time, the height of the tide should be added to the charted depth. If the height of the tide is negative—that is, if there is a minus sign (—) before the tabular height—the height should be subtracted from the charted depth. For any time between high and low water, the height of the tide may be estimated from the heights of the preceding and the following tides, or Table 3 may be used. The reference stations in Table 1 contain the heights in centimeters as well as in feet.

Variation in sea level.— Changes in winds and barometric conditions cause variations in sea level from day to day. In general, with onshore winds or a low barometer the heights of both the high and low waters will be higher than predicted, while with offshore winds or a high barometer they will be lower. There are also seasonal variations in sea level, but these variations have been included in the predictions for each station. At ocean stations the seasonal variation in sea level is usually less than half a foot.

At stations on tidal rivers the average seasonal variation in river level due to freshets and droughts may be considerably more than a foot. The predictions for these stations include an allowance for this seasonal variation representing average freshet and drought conditions. Unusual freshets or droughts, however, will cause the tides to be higher or lower, respectively, than predicted.

Number of tides.— There are usually two high and two low waters in a day. Tides follow the Moon more closely than they do the Sun, and the lunar or tidal day is about 50 minutes longer than the solar day. This causes the tide to occur later each day, and a tide that has occurred near the end of one calendar day will be followed by a corresponding tide that may skip the next day and occur in the early morning of the third day. Thus, on certain days of each month only a single high or a single low water occurs. At some stations, during portions of each month, the tide becomes diurnal—that is, only one high and one low water will occur during the period of a lunar day.

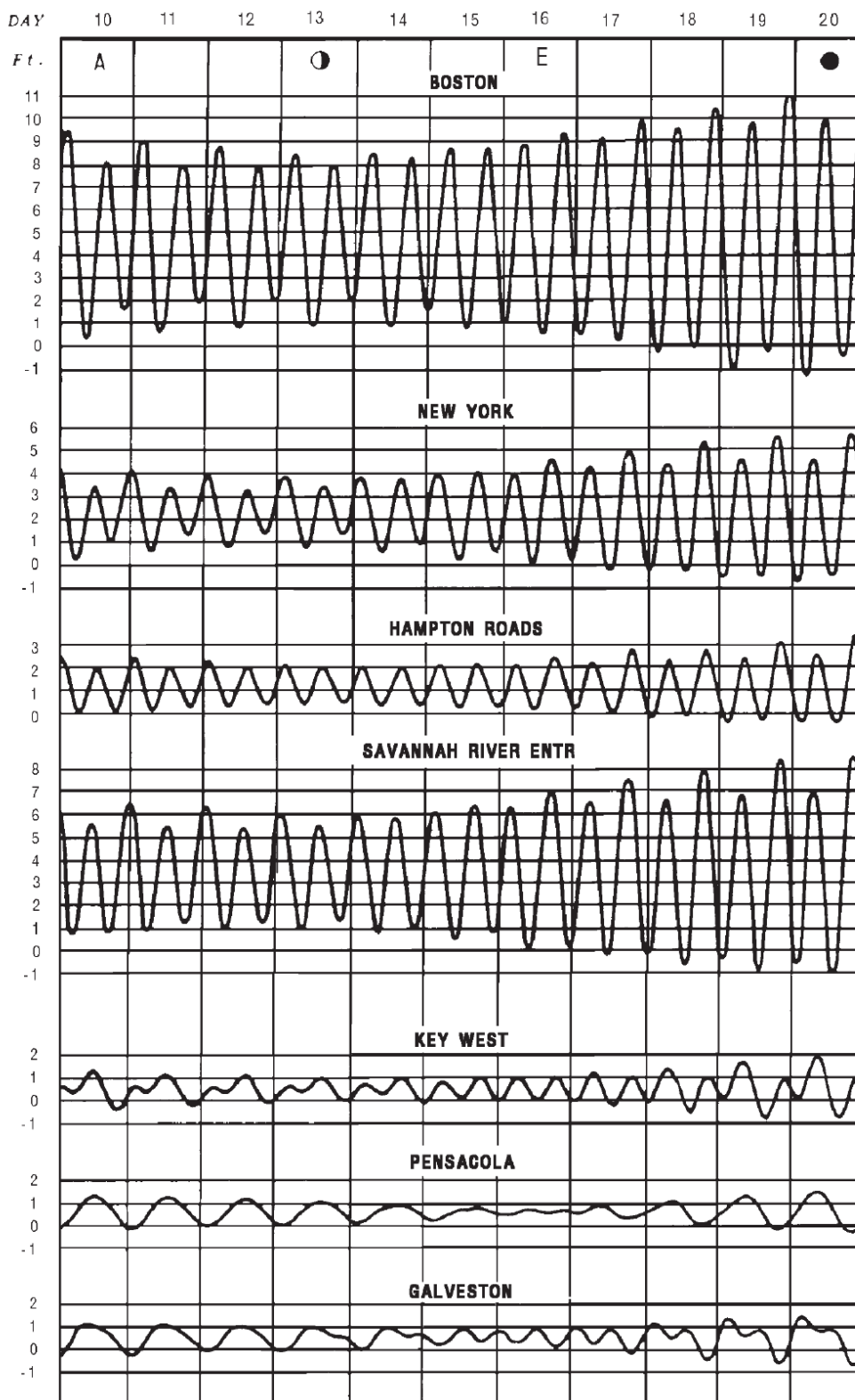
Relation of tide to current.— In using these tables of tide predictions bear in mind that they give the times and heights of high and low waters and not the times of turning of the current or slack water. For stations on the outer coast there is usually a small difference between the time of high or low water and the beginning of ebb or flood current, but for places in narrow channels, landlocked harbors, or on tidal rivers, the time of slack water may differ by several hours from the time of high or low water stand. The relation of the times of high and low water to the turning of the current depends upon a number of factors, so no simple or general rule can be given. For the predicted time of slack water, and other

TABLE 1.—DAILY TIDE PREDICTIONS

current data, reference should be made to the Tidal Current Tables prepared by the National Ocean Service, for the Atlantic and the Pacific coast of North America and Asia.

Typical tide curves.— The variations in the tide from day to day and from place to place are illustrated on the opposite page by the tide curves for representative ports along the Atlantic and Gulf coasts of the United States. Note that the range of tide for stations along the Atlantic coast varies from place to place but that the type is uniformly semidiurnal with the principal variations following the changes in the Moon's distance and phase. In the Gulf of Mexico, however, the type of tide differs considerably and the range of tide is uniformly small. At certain ports such as Pensacola there is usually only one high and one low water a day while at other ports such as Galveston the inequality is such that the tide is semidiurnal around the times the Moon is on the Equator but becomes diurnal around the times of maximum north or south declination of the Moon. In the Gulf of Mexico, consequently, the principal variations in the tide are due to the changing declination of the Moon. Key West, at the entrance to the Gulf of Mexico, has a type of tide which is a mixture of semidiurnal and diurnal types. Here the tide is semidiurnal but there is considerable inequality in the heights of high and low waters. By reference to the curves it will be seen that where the inequality is large there are times when there is only a few tenths of a foot difference between high water and low water.

TYPICAL TIDE CURVES FOR UNITED STATES PORTS



A discussion of these curves is given on the preceding page.

- Lunar data:*
- A - Moon in apogee
 - ☾ - last quarter
 - E - Moon on Equator
 - - new Moon

Argentina, Newfoundland, 2020

Times and Heights of High and Low Waters

January				February				March													
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height								
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm							
1 W	0017	6.6	200			1 Sa	0050	6.6	200	16 Su	0153	7.2	220	1 Su	0004	6.9	210	16 M	0127	7.2	220
	0535	3.0	90				0627	3.3	100		0655	3.0	90		0544	2.6	80		0625	3.0	90
	1222	7.2	220				1300	6.6	200		1432	6.6	200		1215	6.6	200		1412	6.2	190
	1759	3.3	100				1835	3.3	100		1917	3.0	90		1748	2.6	80		1841	3.0	90
2 Th	0105	6.6	200			2 Su	0143	6.6	200	17 M	0259	7.2	220	2 M	0051	6.6	200	17 Tu	0233	6.9	210
	0625	3.3	100				0717	3.6	110		0957	3.3	100		0623	3.3	100		0847	3.6	110
	1308	6.9	210				1354	6.2	190		1542	6.2	190		1303	6.2	190		1518	5.9	180
	1849	3.6	110				1924	3.3	100		2051	3.3	100		1828	3.0	90		2017	3.3	100
3 F	0157	6.6	200			3 M	0247	6.6	200	18 Tu	0406	7.2	220	3 Tu	0150	6.6	200	18 W	0341	6.9	210
	0729	3.6	110				0847	3.6	110		1117	3.3	100		0717	3.6	110		1059	3.3	100
	1403	6.6	200				1502	5.9	180		1649	6.2	190		1408	5.9	180		1624	5.9	180
	1955	3.6	110				2034	3.6	110		2229	3.0	90		1922	3.3	100		2215	3.3	100
4 Sa	0255	6.6	200			4 Tu	0355	6.6	200	19 W	0515	7.2	220	4 W	0300	6.6	200	19 Th	0451	6.6	200
	0850	3.6	110				1033	3.6	110		1216	3.3	100		1000	3.6	110		1154	3.3	100
	1507	6.2	190				1614	5.9	180		1752	6.2	190		1528	5.6	170		1730	5.9	180
	2112	3.6	110				2204	3.3	100		2329	3.0	90		2049	3.3	100		2313	3.0	90
5 Su	0354	6.6	200			5 W	0459	6.9	210	20 Th	0619	7.2	220	5 Th	0415	6.6	200	20 F	0559	6.9	210
	1004	3.6	110				1136	3.3	100		1259	3.0	90		1110	3.3	100		1232	3.0	90
	1612	6.2	190				1719	6.2	190		1848	6.2	190		1646	5.9	180		1829	6.2	190
	2212	3.6	110				2309	3.0	90						2241	3.0	90				
6 M	0451	6.9	210			6 Th	0557	7.2	220	21 F	0019	2.6	80	6 F	0526	6.9	210	21 Sa	0001	2.6	80
	1105	3.3	100				1227	2.6	80		0713	7.5	230		1159	2.6	80		0652	7.2	220
	1708	6.2	190				1817	6.6	200		1327	2.6	80		1753	6.2	190		1256	2.6	80
	2300	3.3	100								1936	6.6	200		2346	2.6	80		1915	6.6	200
7 Tu	0542	7.2	220			7 F	0004	2.6	80	22 Sa	0102	2.3	70	7 Sa	0629	7.5	230	22 Su	0044	2.3	70
	1159	3.3	100				0651	7.9	240		0757	7.9	240		1243	2.0	60		0733	7.2	220
	1757	6.6	200				1310	2.3	70		1351	2.3	70		1848	6.9	210		1320	2.3	70
	2344	3.0	90				1909	6.9	210		2016	6.9	210						1952	6.9	210
8 W	0629	7.5	230			8 Sa	0055	2.3	70	23 Su	0143	2.0	60	8 Su	0040	2.0	60	23 M	0124	2.0	60
	1247	3.0	90				0740	8.2	250		0832	7.9	240		0722	7.9	240		0805	7.5	230
	1842	6.9	210				1349	2.0	60		1417	2.3	70		1322	1.6	50		1348	2.0	60
							1956	7.2	220		2050	6.9	210		1937	7.5	230		2023	6.9	210
9 Th	0027	2.6	80			9 Su	0143	2.0	60	24 M	0221	2.0	60	9 M	0128	1.3	40	24 Tu	0201	1.6	50
	0713	8.2	250				0826	8.5	260		0903	7.9	240		0809	8.2	250		0834	7.5	230
	1329	2.3	70				1426	1.6	50		1446	2.0	60		1400	1.3	40		1417	2.0	60
	1927	6.9	210				2042	7.5	230		2121	6.9	210		2022	7.9	240		2051	7.2	220
10 F	0109	2.3	70			10 M	0227	1.3	40	25 Tu	0257	2.0	60	10 Tu	0212	1.0	30	25 W	0236	1.6	50
	0756	8.5	260				0912	8.5	260		0931	7.5	230		0853	8.5	260		0901	7.2	220
	1408	2.0	60				1502	1.3	40		1516	2.0	60		1437	1.0	30		1447	1.6	50
	2011	7.2	220				2127	7.9	240		2149	7.2	220		2106	8.2	250		2118	7.2	220
11 Sa	0152	2.0	60			11 Tu	0310	1.3	40	26 W	0332	2.0	60	11 W	0253	1.0	30	26 Th	0310	1.6	50
	0840	8.5	260				0957	8.5	260		0959	7.5	230		0936	8.5	260		0929	7.2	220
	1444	2.0	60				1538	1.3	40		1546	2.0	60		1513	1.0	30		1516	2.0	60
	2056	7.5	230				2213	7.9	240		2219	7.2	220		2151	8.2	250		2146	7.2	220
12 Su	0236	2.0	60			12 W	0351	1.3	40	27 Th	0406	2.0	60	12 Th	0334	1.0	30	27 F	0341	1.6	50
	0926	8.5	260				1042	8.5	260		1030	7.2	220		1020	8.2	250		0958	7.2	220
	1520	1.6	50				1616	1.6	50		1615	2.0	60		1550	1.0	30		1544	2.0	60
	2143	7.5	230				2300	7.9	240		2250	7.2	220		2238	8.2	250		2218	7.2	220
13 M	0319	2.0	60			13 Th	0432	1.6	50	28 F	0438	2.0	60	13 F	0414	1.3	40	28 Sa	0411	2.0	60
	1012	8.5	260				1129	7.9	240		1101	6.9	210		1106	7.5	230		1029	6.9	210
	1557	2.0	60				1654	1.6	50		1645	2.3	70		1627	1.3	40		1612	2.0	60
	2230	7.5	230				2352	7.9	240		2324	6.9	210		2328	7.9	240		2253	7.2	220
14 Tu	0402	2.0	60			14 F	0514	2.0	60	29 Sa	0510	2.3	70	14 Sa	0454	1.6	50	29 Su	0441	2.3	70
	1100	8.5	260				1220	7.5	230		1136	6.9	210		1158	7.2	220		1103	6.6	200
	1636	2.0	60				1735	2.0	60		1715	2.6	80		1705	2.0	60		1642	2.3	70
	2320	7.5	230													2332	6.9		210		
15 W	0446	2.0	60			15 Sa	0049	7.5	230	30 Su	0023	7.5	230	15 Su	0023	7.5	230	30 M	0513	2.6	80
	1150	8.2	250				0600	2.3	70		0536	2.3	70		0536	2.3	70		1143	6.2	190
	1718	2.3	70				1321	6.9	210		1302	6.6	200		1302	6.6	200		1715	2.3	70
							1820	2.6	80		1748	2.3	70								
					31 F	0007	6.9	210				31 Tu	0018	6.9	210						
						0545	3.0	90					0551	3.0	90						
						1216	6.9	210					1234	5.9	180						
						1755	3.0	90					1755	2.6	80						

Time meridian 52° 30' W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.

Heights are referred to the Canadian chart datum of soundings. Subtract 1.9 feet (62 centimeters) to refer these levels to the datum of N.O.S. charts.

Pictou, Nova Scotia, 2020

Times and Heights of High and Low Waters

October				November				December																
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height											
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm										
1 Th ○	0322	2.6	80			1 Su	0410	1.6	50	16 M	0408	0.7	20	1 Tu	0419	1.6	50	16 W	0444	0.7	20			
	0944	5.6	170				1053	5.6	170		1059	6.2	190		1119	5.6	170		1147	5.9	180			
	1559	2.0	60				1622	3.3	100		1619	3.3	100		1618	3.9	120		1645	3.6	110	1645	3.6	110
	2217	5.2	160				2221	5.6	170		2220	6.6	200		2206	5.9	180		2240	6.6	200			
2 F	0400	2.3	70			2 M	0442	1.6	50	17 Tu	0455	0.3	10	2 W	0453	1.3	40	17 Th	0532	0.7	20			
	1026	5.6	170				1132	5.6	170		1153	6.2	190		1159	5.6	170		1237	5.9	180			
	1631	2.3	70				1652	3.6	110		1705	3.3	100		1652	3.9	120		1732	3.6	110	1732	3.6	110
	2244	5.2	160				2246	5.6	170		2301	6.6	200		2237	5.9	180		2326	6.6	200			
3 Sa	0436	2.0	60			3 Tu	0515	1.6	50	18 W	0543	0.7	20	3 Th	0529	1.3	40	18 F	0621	1.0	30			
	1106	5.6	170				1211	5.6	170		1247	5.9	180		1241	5.6	170		1327	5.6	170			
	1700	2.6	80				1722	3.6	110		1751	3.6	110		1729	3.9	120		1819	3.6	110	1819	3.6	110
	2309	5.2	160				2311	5.9	180		2343	6.6	200		2310	6.2	190							
4 Su	0509	2.0	60			4 W	0548	1.6	50	19 Th	0633	0.7	20	4 F	0607	1.3	40	19 Sa	0012	6.2	190			
	1146	5.6	170				1252	5.2	160		1345	5.9	180		1324	5.2	160		0710	1.3	40			
	1728	3.0	90				1753	3.9	120		1838	3.9	120		1808	3.9	120		1416	5.6	170			
	2333	5.6	170				2338	5.9	180						2346	5.9	180		1908	3.6	110			
5 M	0542	1.6	50			5 Th	0625	1.6	50	20 F	0026	6.2	190	5 Sa	0649	1.6	50	20 Su	0101	5.9	180			
	1225	5.2	160				1337	5.2	160		0727	1.3	40		1409	5.2	160		0800	1.6	50			
	1757	3.0	90				1828	3.9	120		1446	5.6	170		1852	3.9	120		1503	5.2	160			
	2356	5.6	170								1930	3.9	120						2000	3.6	110			
6 Tu	0615	1.6	50			6 F	0008	5.9	180	21 Sa	0114	5.9	180	6 Su	0026	5.9	180	21 M	0156	5.6	170			
	1305	5.2	160				0705	1.6	50		0828	1.6	50		0734	1.6	50		0851	2.3	70			
	1826	3.3	100				1428	5.2	160		1547	5.2	160		1455	5.2	160		1548	5.2	160			
							1906	3.9	120		2029	3.9	120		1943	3.9	120		2059	3.6	110			
7 W	0020	5.6	170			7 Sa	0042	5.6	170	22 Su	0215	5.6	170	7 M	0115	5.6	170	22 Tu	0304	5.2	160			
	0651	2.0	60				0752	2.0	60		0934	2.0	60		0823	2.0	60		0942	2.6	80			
	1350	4.9	150				1524	4.9	150		1644	5.2	160		1542	5.2	160		1630	5.2	160			
	1857	3.6	110				1954	4.3	130		2139	3.9	120		2044	3.9	120		2208	3.6	110			
8 Th	0047	5.6	170			8 Su	0124	5.6	170	23 M	0340	5.2	160	8 Tu	0220	5.2	160	23 W	0426	4.9	150			
	0731	2.0	60				0847	2.0	60		1039	2.3	70		0917	2.3	70		1034	3.0	90			
	1442	4.9	150				1623	4.9	150		1735	5.2	160		1627	5.2	160		1709	5.2	160			
	1931	3.9	120				2057	4.3	130		2257	3.6	110		2154	3.6	110		2322	3.3	100			
9 F	0119	5.6	170			9 M	0222	5.2	160	24 Tu	0508	4.9	150	9 W	0350	5.2	160	24 Th	0548	4.6	140			
	0818	2.0	60				0950	2.3	70		1139	2.6	80		1016	2.6	80		1125	3.3	100			
	1546	4.6	140				1717	4.9	150		1819	5.2	160		1712	5.6	170		1747	5.2	160			
	2013	3.9	120				2214	3.9	120						2307	3.0	90							
10 Sa	0158	5.2	160			10 Tu	0350	5.2	160	25 W	0009	3.3	100	10 Th	0528	4.9	150	25 F	0028	3.0	90			
	0918	2.3	70				1056	2.3	70		0625	4.9	150		1117	2.6	80		0700	4.6	140			
	1656	4.6	140				1806	5.2	160		1233	3.0	90		1757	5.6	170		1216	3.6	110			
	2112	3.9	120				2332	3.6	110		1858	5.2	160						1824	5.2	160			
11 Su	0250	5.2	160			11 W	0537	5.2	160	26 Th	0108	3.0	90	11 F	0016	2.6	80	26 Sa	0121	2.6	80			
	1028	2.3	70				1200	2.3	70		0731	4.9	150		0650	5.2	160		0803	4.9	150			
	1801	4.6	140				1851	5.2	160		1321	3.3	100		1220	3.0	90		1303	3.9	120			
	2232	3.9	120								1933	5.2	160		1844	5.9	180		1902	5.6	170			
12 M	0406	5.2	160			12 Th	0040	3.0	90	27 F	0156	2.6	80	12 Sa	0117	2.0	60	27 Su	0207	2.3	70			
	1140	2.0	60				0701	5.2	160		0826	5.2	160		0759	5.6	170		0857	4.9	150			
	1857	4.9	150				1300	2.6	80		1402	3.3	100		1320	3.3	100		1348	3.9	120			
	2352	3.9	120				1933	5.6	170		2006	5.6	170		1932	6.2	190		1940	5.6	170			
13 Tu	0546	5.2	160			13 F	0139	2.3	70	28 Sa	0236	2.3	70	13 Su	0213	1.3	40	28 M	0246	2.0	60			
	1245	2.0	60				0809	5.6	170		0915	5.2	160		0902	5.6	170		0944	5.2	160			
	1944	4.9	150				1355	2.6	80		1439	3.6	110		1416	3.3	100		1429	3.9	120			
							2015	5.9	180		2037	5.6	170		2020	6.6	200		2019	5.9	180			
14 W	0101	3.3	100			14 Sa	0232	1.6	50	29 Su	0312	2.0	60	14 M	0305	1.0	30	29 Tu	0323	1.6	50			
	0711	5.6	170				0909	5.9	180		0958	5.2	160		1000	5.9	180		1026	5.2	160			
	1341	2.0	60				1445	2.6	80		1512	3.6	110		1508	3.6	110		1509	3.9	120			
	2024	5.2	160				2057	6.2	190		2107	5.9	180		2107	6.6	200		2058	5.9	180			
15 Th	0159	2.6	80			15 Su	0321	1.0	30	30 M	0346	1.6	50	15 Tu	0355	0.7	20	30 W	0359	1.6	50			
	0819	5.9	180				1005	6.2	190		1039	5.6	170		1054	5.9	180		1106	5.2	160			
	1431	2.0	60				1533	3.0	90		1545	3.9	120		1557	3.6	110		1549	3.9	120			
	2102	5.6	170				2139	6.6	200		2136	5.9	180		2154	6.6	200		2137	6.2	190			
					31 Sa	0337	2.0	60							31 Th	0437	1.3	40						
						1013	5.6	170								1145	5.2	160						
						1553	3.0	90								1630	3.9	120						
						2155	5.6	170								2217	6.2	190						

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the Canadian chart datum of soundings.

Quebec, Quebec, 2020

Times and Heights of High and Low Waters

July				August				September											
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height						
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm					
1 W	0233	16.1	490		16 Th	0242	14.1	430		1 Tu	0030	1.3	40		16 W	0000	1.0	30	
	1015	1.3	40			1012	2.0	60			0539	16.4	500			0503	17.1	520	
	1509	14.1	430			1518	11.8	360			1321	1.0	30			1251	0.7	20	
	2221	1.3	40			2200	2.3	70			1812	14.1	430			1736	15.1	460	
2 Th	0330	16.7	510		17 F	0333	14.8	450		2 W	0118	1.0	30		17 Th	0057	0.7	20	
	1121	1.0	30			1112	1.6	50			0618	16.4	500			0548	17.4	530	
	1609	14.1	430			1615	12.5	380			1357	1.0	30			1339	0.7	20	
	2315	1.3	40			2254	2.0	60			1848	14.4	440			1812	16.1	490	
3 F	0421	17.4	530		18 Sa	0418	15.4	470		3 Th	0200	1.0	30		18 F	0151	0.7	20	
	1218	1.0	30			1206	1.3	40			0657	16.1	490			0636	17.7	540	
	1703	14.1	430			1654	12.8	390			1436	1.0	30			1421	0.7	20	
						2348	1.6	50			1918	14.8	450			1857	16.7	510	
4 Sa	0006	1.3	40		19 Su	0503	16.4	500		4 F	0242	1.0	30		19 Sa	0239	0.7	20	
	0512	17.7	540			1254	1.3	40			0727	16.1	490			0718	17.4	530	
	1309	1.0	30			1742	13.5	410			1506	1.0	30			1506	0.7	20	
	1754	14.1	430								1945	15.1	460			1936	17.1	520	
5 Su	0057	1.3	40		20 M	0036	1.6	50		5 Sa	0315	1.0	30		20 Su	0330	0.7	20	
	0600	17.7	540			0548	17.1	520			0757	15.7	480			0757	16.7	510	
	1403	1.0	30			1342	1.0	30			1536	1.0	30			1542	0.7	20	
	1842	14.1	430			1821	13.8	420			2012	15.1	460			2015	17.4	530	
6 M	0148	1.3	40		21 Tu	0124	1.3	40		6 Su	0348	1.0	30		21 M	0412	0.7	20	
	0648	17.7	540			0627	17.4	530			0830	15.1	460			0836	16.1	490	
	1448	1.0	30			1424	1.0	30			1600	1.0	30			1618	1.0	30	
	1927	14.1	430			1906	14.1	430			2042	15.1	460			2057	17.1	520	
7 Tu	0233	1.3	40		22 W	0212	1.0	30		7 M	0418	1.3	40		22 Tu	0457	1.0	30	
	0730	17.4	530			0712	17.7	540			0900	14.4	440			0927	14.8	450	
	1530	1.0	30			1509	1.0	30			1627	1.3	40			1657	1.0	30	
	2003	14.1	430			1948	14.4	440			2115	14.8	450			2148	16.4	500	
8 W	0312	1.3	40		23 Th	0303	1.0	30		8 Tu	0454	1.3	40		23 W	0548	1.0	30	
	0809	17.1	520			0757	17.4	530			0936	13.5	410			1027	13.5	410	
	1609	1.0	30			1557	1.0	30			1651	1.6	50			1739	1.6	50	
	2042	14.1	430			2027	14.8	450			2154	14.1	430			2248	15.4	470	
9 Th	0354	1.3	40		24 F	0351	1.0	30		9 W	0530	1.6	50		24 Th	0645	1.3	40	
	0851	16.7	510			0839	17.4	530			1021	12.1	370			1142	11.8	360	
	1645	1.0	30			1639	1.0	30			1721	2.0	60			1833	2.0	60	
	2124	14.1	430			2109	15.1	460			2239	13.5	410			2357	14.4	440	
10 F	0436	1.6	50		25 Sa	0439	1.0	30		10 Th	0618	2.0	60		25 F	0754	1.6	50	
	0930	16.1	490			0924	16.7	510			1115	11.2	340			1312	11.2	340	
	1721	1.3	40			1721	1.0	30			1803	2.3	70			1948	2.3	70	
	2206	13.8	420			2157	15.1	460			2321	15.4	470						
11 Sa	0518	2.0	60		26 Su	0530	1.0	30		11 F	0721	2.3	70		26 Sa	0121	13.8	420	
	1012	14.8	450			1018	15.7	480			1233	10.2	310			0912	1.6	50	
	1757	1.3	40			1803	1.0	30			1909	2.6	80			1430	11.5	350	
	2254	13.5	410			2254	15.4	470								2106	2.3	70	
12 Su	0606	2.0	60		27 M	0627	1.3	40		12 Th	0027	14.8	450		12 Su	0236	14.1	430	
	1106	13.8	420			1112	14.8	450			0818	1.3	40			1024	1.3	40	
	1839	1.6	50			1851	1.0	30			1324	11.8	360			1539	12.5	380	
	2348	13.5	410			2354	15.1	460			2012	2.0	60			2221	2.0	60	
13 M	0703	2.3	70		28 Tu	0730	1.3	40		13 F	0142	14.8	450		13 M	0342	14.8	450	
	1157	12.8	390			1227	13.8	420			0933	1.3	40			1000	1.6	50	
	1921	2.0	60			1942	1.3	40			1442	11.8	360			1512	11.5	350	
											2118	2.0	60			2148	2.3	70	
14 Tu	0048	13.5	410		29 W	0057	15.1	460		14 Th	0251	14.8	450		14 M	0439	15.4	470	
	0806	2.3	70			0842	1.3	40			1106	1.3	40			1212	1.3	40	
	1312	11.8	360			1339	12.8	390			1554	12.5	380			1609	12.5	380	
	2015	2.3	70			2042	1.3	40			2233	1.6	50			2300	1.6	50	
15 W	0145	13.5	410		30 Th	0200	15.4	470		15 Tu	0412	16.1	490		15 W	0018	1.3	40	
	0912	2.0	60			0951	1.3	40			1203	1.0	30			0518	15.7	480	
	1421	11.8	360			1451	12.8	390			1654	13.8	420			1251	1.0	30	
	2109	2.3	70			2142	1.6	50								1745	14.8	450	
				31 F	0306	15.7	480		31 M	0451	16.1	490							
					1057	1.0	30			1236	1.0	30							
					1600	12.8	390			1733	13.8	420							
					2248	1.3	40												

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the Canadian chart datum of soundings.

Quebec, Quebec, 2020

Times and Heights of High and Low Waters

October				November				December						
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height	
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm
1 Th	0100	1.0	30		16 F	0042	0.7	20		1 Su	0154	1.0	30	
	0557	15.7	480			0527	17.1	520			0636	14.4	440	
	1324	1.3	40			1309	0.7	20			1351	1.3	40	
	1818	15.1	460			1748	17.1	520			1845	15.7	480	
2 F	0139	1.0	30		17 Sa	0136	0.7	20		2 M	0230	1.0	30	
	0630	15.4	470			0612	17.1	520			0709	14.1	430	
	1400	1.0	30			1354	0.7	20			1424	1.3	40	
	1848	15.4	470			1827	17.7	540			1915	16.1	490	
3 Sa	0221	1.0	30		18 Su	0227	0.7	20		3 Tu	0303	1.0	30	
	0703	15.1	460			0654	16.7	510			0736	13.8	420	
	1430	1.0	30			1433	0.7	20			1451	1.3	40	
	1915	15.4	470			1909	18.0	550			1942	16.1	490	
4 Su	0254	1.0	30		19 M	0312	0.7	20		4 W	0336	1.0	30	
	0733	14.8	450			0739	16.1	490			0809	13.5	410	
	1457	1.0	30			1512	1.0	30			1518	1.6	50	
	1942	15.7	480			1951	18.0	550			2009	15.7	480	
5 M	0324	1.0	30		20 Tu	0357	0.7	20		5 Th	0406	1.3	40	
	0800	14.4	440			0821	15.1	460			0836	13.1	400	
	1521	1.3	40			1551	1.0	30			1545	1.6	50	
	2012	15.7	480			2033	17.7	540			2045	15.4	470	
6 Tu	0357	1.0	30		21 W	0439	1.0	30		6 F	0442	1.3	40	
	0833	14.1	430			0903	14.1	430			0921	12.1	370	
	1548	1.3	40			1624	1.3	40			1621	2.0	60	
	2039	15.4	470			2121	16.7	510			2133	14.8	450	
7 W	0424	1.3	40		22 Th	0527	1.3	40		7 Sa	0533	1.6	50	
	0900	13.1	400			1006	12.8	390			1015	11.5	350	
	1609	1.6	50			1709	1.6	50			1709	2.3	70	
	2112	14.8	450			2224	15.1	460			2227	14.1	430	
8 Th	0500	1.6	50		23 F	0624	1.6	50		8 Su	0630	1.6	50	
	0945	12.1	370			1124	11.5	350			1127	10.8	330	
	1645	2.0	60			1806	2.3	70			1812	2.6	80	
	2157	14.1	430			2333	14.1	430			2339	13.5	410	
9 F	0548	2.0	60		24 Sa	0733	1.6	50		9 M	0736	1.6	50	
	1039	11.2	340			1251	11.2	340			1251	11.5	350	
	1730	2.6	80			1921	2.6	80			1936	2.6	80	
	2257	13.5	410											
10 Sa	0651	2.0	60		25 Su	0057	13.5	410		10 Tu	0057	13.8	420	
	1157	10.5	320			0842	1.3	40			0848	1.3	40	
	1827	3.0	90			1409	11.5	350			1400	12.5	380	
						2045	2.3	70			2100	2.0	60	
11 Su	0006	13.1	400		26 M	0215	13.5	410		11 W	0212	14.4	440	
	0803	2.0	60			0951	1.6	50			0954	1.3	40	
	1324	10.5	320			1512	12.5	380			1500	13.8	420	
	1954	2.6	80			2203	2.0	60			2218	1.3	40	
12 M	0127	13.5	410		27 Tu	0321	14.1	430		12 Th	0324	15.1	460	
	0921	1.6	50			1048	1.3	40			1057	1.0	30	
	1436	11.8	360			1600	13.5	410			1551	15.4	470	
	2121	2.0	60			2303	1.6	50			2324	1.0	30	
13 Tu	0242	14.8	450		28 W	0412	14.4	440		13 F	0415	15.4	470	
	1033	1.3	40			1136	1.3	40			1145	1.0	30	
	1536	13.1	400			1642	14.4	440			1636	16.7	510	
	2239	1.3	40			2357	1.3	40						
14 W	0348	15.7	480		29 Th	0457	14.8	450		14 Sa	0024	0.7	20	
	1133	1.0	30			1215	1.3	40			0503	15.7	480	
	1624	14.8	450			1721	15.1	460			1236	0.7	20	
	2342	1.0	30								1718	17.7	540	
15 Th	0439	16.4	500		30 F	0039	1.3	40		15 Su	0118	0.7	20	
	1221	1.0	30			0536	14.8	450			0551	15.7	480	
	1706	16.1	490			1251	1.3	40			1321	0.7	20	
						1748	15.7	480			1806	18.0	550	
					31 Sa	0118	1.0	30						
						0609	14.8	450						
						1321	1.3	40						
						1821	15.7	480						
					31 Th	0227	1.0	30						
						0703	13.1	400						
						1406	1.3	40						

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the Canadian chart datum of soundings.

Halifax, Nova Scotia, 2020

Times and Heights of High and Low Waters

July				August				September							
Time	Height			Time	Height			Time	Height			Time	Height		
	h	m	cm	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm
1 W	0419	5.2	160	16 Th	0437	4.6	140	1 Sa	0020	1.0	30	16 Su	0551	4.9	150
	1051	1.3	40		1040	2.3	70		0612	5.2	160		1156	2.0	60
	1638	6.2	190		1643	5.2	160		1238	1.6	50		1749	5.6	170
	2339	0.7	20		2326	1.6	50		1817	5.9	180				
2 Th	0524	5.2	160	17 F	0532	4.9	150	2 Su	0113	0.7	20	17 M	0034	1.0	30
	1151	1.3	40		1132	2.3	70		0705	5.6	170		0640	5.2	160
	1735	6.2	190		1731	5.6	170		1330	1.6	50		1248	2.0	60
									1908	6.2	190		1839	5.9	180
3 F	0035	0.7	20	18 Sa	0014	1.3	40	3 M	0202	0.7	20	18 Tu	0123	0.7	20
	0622	5.6	170		0621	4.9	150		0752	5.6	170		0726	5.6	170
	1249	1.3	40		1223	2.0	60		1417	1.6	50		1338	1.6	50
	1829	6.2	190		1816	5.6	170		1955	6.2	190		1927	6.2	190

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the Canadian chart datum of soundings.

Halifax, Nova Scotia, 2020

Times and Heights of High and Low Waters

October				November				December			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm
1 Th 0151 1.3 40 0745 5.9 180 1411 1.6 50 1958 5.9 180		16 F 0116 0.7 20 0714 6.9 210 1351 0.7 20 1938 6.6 200		1 Su 0222 1.6 50 0819 5.9 180 1443 1.3 40 2048 5.9 180		16 M 0239 1.0 30 0822 7.2 220 1514 0.3 10 2100 6.6 200		1 Tu 0229 2.3 70 0823 6.2 190 1457 1.3 40 2102 5.9 180		16 W 0316 1.6 50 0851 6.9 210 1550 0.7 20 2135 6.2 190	
2 F 0223 1.3 40 0819 5.9 180 1441 1.6 50 2036 5.9 180		17 Sa 0206 0.7 20 0759 7.2 220 1442 0.3 10 2027 6.6 200		2 M 0254 2.0 60 0852 5.9 180 1516 1.3 40 2124 5.9 180		17 Tu 0332 1.3 40 0909 6.9 210 1607 0.7 20 2150 6.6 200		2 W 0305 2.3 70 0859 6.2 190 1537 1.3 40 2139 5.6 170		17 Th 0408 2.0 60 0939 6.9 210 1641 1.0 30 2223 6.2 190	
3 Sa 0253 1.6 50 0853 5.9 180 1511 1.6 50 2112 5.9 180		18 Su 0257 0.7 20 0846 7.2 220 1533 0.3 10 2117 6.6 200		3 Tu 0326 2.3 70 0925 5.9 180 1553 1.6 50 2159 5.6 170		18 W 0427 1.6 50 0957 6.9 210 1702 0.7 20 2240 6.2 190		3 Th 0343 2.3 70 0936 6.2 190 1620 1.3 40 2217 5.6 170		18 F 0501 2.3 70 1026 6.6 200 1732 1.3 40 2311 5.9 180	
4 Su 0322 1.6 50 0926 5.9 180 1543 1.6 50 2149 5.9 180		19 M 0349 1.0 30 0932 6.9 210 1627 0.7 20 2206 6.6 200		4 W 0402 2.3 70 0959 5.9 180 1636 1.6 50 2236 5.6 170		19 Th 0526 2.0 60 1045 6.6 200 1759 1.0 30 2331 5.9 180		4 F 0428 2.6 80 1015 6.2 190 1708 1.6 50 2258 5.6 170		19 Sa 0557 2.3 70 1114 6.2 190 1823 1.6 50 2359 5.9 180	
5 M 0353 2.0 60 0959 5.9 180 1618 1.6 50 2225 5.6 170		20 Tu 0446 1.3 40 1018 6.9 210 1724 0.7 20 2257 6.2 190		5 Th 0445 2.6 80 1036 5.9 180 1726 1.6 50 2316 5.6 170		20 F 0628 2.3 70 1136 6.2 190 1857 1.3 40		5 Sa 0522 2.6 80 1058 5.9 180 1801 1.6 50 2343 5.6 170		20 Su 0655 2.6 80 1203 5.9 180 1913 1.6 50	
6 Tu 0427 2.3 70 1032 5.9 180 1700 1.6 50 2301 5.6 170		21 W 0547 2.0 60 1106 6.6 200 1824 1.0 30 2349 5.9 180		6 F 0540 2.6 80 1117 5.6 170 1823 2.0 60		21 Sa 0025 5.6 170 0730 2.6 80 1231 5.6 170 1954 1.6 50		6 Su 0624 2.6 80 1146 5.9 180 1855 1.6 50		21 M 0049 5.6 170 0753 2.6 80 1256 5.2 160 2001 2.0 60	
7 W 0509 2.3 70 1107 5.6 170 1751 2.0 60 2340 5.2 160		22 Th 0652 2.3 70 1157 5.9 180 1925 1.3 40		7 Sa 0001 5.2 160 0645 2.6 80 1204 5.6 170 1922 2.0 60		22 Su 0125 5.6 170 0831 2.6 80 1334 5.2 160 2048 2.0 60		7 M 0033 5.6 170 0728 2.3 70 1240 5.6 170 1950 1.6 50		22 Tu 0142 5.6 170 0848 2.6 80 1356 5.2 160 2049 2.3 70	
8 Th 0604 2.6 80 1145 5.6 170 1850 2.0 60		23 F 0047 5.6 170 0756 2.3 70 1256 5.6 170 2025 1.6 50		8 Su 0054 5.2 160 0750 2.6 80 1301 5.2 160 2019 2.0 60		23 M 0232 5.6 170 0929 2.6 80 1445 5.2 160 2139 2.0 60		8 Tu 0129 5.6 170 0830 2.3 70 1344 5.6 170 2045 1.6 50		23 W 0240 5.6 170 0941 2.3 70 1502 4.9 150 2138 2.3 70	
9 F 0025 4.9 150 0708 2.6 80 1231 5.2 160 1950 2.0 60		24 Sa 0154 5.2 160 0858 2.3 70 1405 5.2 160 2123 1.6 50		9 M 0157 5.2 160 0852 2.3 70 1411 5.2 160 2115 1.6 50		24 Tu 0338 5.6 170 1024 2.3 70 1556 5.2 160 2229 2.0 60		9 W 0232 5.9 180 0930 2.0 60 1456 5.2 160 2141 1.6 50		24 Th 0339 5.6 170 1030 2.3 70 1609 4.9 150 2227 2.3 70	
10 Sa 0120 4.9 150 0813 2.6 80 1328 5.2 160 2049 2.0 60		25 Su 0314 5.2 160 0959 2.3 70 1526 5.2 160 2219 1.6 50		10 Tu 0307 5.6 170 0952 2.0 60 1526 5.2 160 2210 1.3 40		25 W 0433 5.6 170 1114 2.0 60 1655 5.2 160 2316 2.0 60		10 Th 0336 6.2 190 1029 1.6 50 1607 5.6 170 2239 1.3 40		25 F 0433 5.6 170 1116 2.0 60 1707 5.2 160 2317 2.3 70	
11 Su 0228 4.9 150 0914 2.6 80 1440 5.2 160 2146 1.6 50		26 M 0425 5.6 170 1056 2.3 70 1637 5.2 160 2311 1.6 50		11 W 0412 5.9 180 1050 1.6 50 1635 5.6 170 2304 1.3 40		26 Th 0520 5.9 180 1158 2.0 60 1744 5.2 160		11 F 0435 6.2 190 1127 1.0 30 1711 5.9 180 2337 1.3 40		26 Sa 0520 5.6 170 1159 2.0 60 1757 5.2 160	
12 M 0344 5.2 160 1014 2.3 70 1556 5.2 160 2240 1.3 40		27 Tu 0516 5.6 170 1147 2.0 60 1730 5.6 170 2358 1.6 50		12 Th 0507 6.2 190 1147 1.0 30 1734 5.9 180 2359 1.0 30		27 F 0001 2.0 60 0600 5.9 180 1237 1.6 50 1828 5.6 170		12 Sa 0531 6.6 200 1223 0.7 20 1809 5.9 180		27 Su 0004 2.3 70 0603 5.9 180 1239 1.6 50 1842 5.6 170	
13 Tu 0447 5.6 170 1111 1.6 50 1701 5.6 170 2334 1.0 30		28 W 0559 5.9 180 1231 2.0 60 1815 5.6 170		13 F 0558 6.6 200 1241 0.7 20 1828 6.2 190		28 Sa 0042 2.0 60 0638 5.9 180 1311 1.6 50 1908 5.6 170		13 Su 0035 1.3 40 0623 6.9 210 1316 0.7 20 1903 6.2 190		28 M 0048 2.3 70 0642 5.9 180 1319 1.3 40 1924 5.6 170	
14 W 0540 5.9 180 1207 1.3 40 1756 5.9 180		29 Th 0040 1.6 50 0636 5.9 180 1309 1.6 50 1855 5.9 180		14 Sa 0053 1.0 30 0646 6.9 210 1332 0.3 10 1919 6.6 200		29 Su 0119 2.0 60 0714 5.9 180 1345 1.3 40 1947 5.9 180		14 M 0131 1.3 40 0713 6.9 210 1408 0.3 10 1955 6.2 190		29 Tu 0128 2.3 70 0721 5.9 180 1359 1.3 40 2003 5.6 170	
15 Th 0025 0.7 20 0628 6.6 200 1259 1.0 30 1848 6.2 190		30 F 0117 1.6 50 0712 5.9 180 1342 1.6 50 1934 5.9 180		15 Su 0146 1.0 30 0734 7.2 220 1423 0.3 10 2010 6.6 200		30 M 0155 2.0 60 0748 5.9 180 1420 1.3 40 2025 5.9 180		15 Tu 0224 1.3 40 0803 6.9 210 1459 0.3 10 2046 6.2 190		30 W 0206 2.3 70 0759 6.2 190 1439 1.0 30 2042 5.6 170	
		31 Sa 0151 1.6 50 0746 5.9 180 1413 1.3 40 2011 5.9 180						31 Th 0245 2.3 70 0837 6.2 190 1521 1.0 30 2121 5.9 180			

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the Canadian chart datum of soundings.

Saint John, New Brunswick, 2020

Times and Heights of High and Low Waters

April				May				June			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft	h m	ft	h m	ft	h m	ft	h m	ft	h m	ft
1 W	0453 23.3 710 1117 5.9 180 1729 22.3 680 2343 6.9 210	16 Th	0025 6.6 200 0637 23.6 720 1259 5.6 170 1915 23.0 700	1 F	0530 24.0 730 1155 4.9 150 1808 23.3 710	16 Sa	0054 6.9 210 0704 23.3 710 1322 5.9 180 1937 23.3 710	1 M	0107 4.3 130 0716 25.3 770 1335 3.3 100 1948 25.9 790	16 Tu	0202 6.2 190 0812 22.6 690 1422 6.2 190 2034 23.6 720
2 Th	0554 23.3 710 1220 5.6 170 1833 22.6 690	17 F	0129 6.6 200 0740 23.6 720 1359 5.6 170 2015 23.0 700	2 Sa	0024 5.9 180 0635 24.6 750 1258 4.6 140 1911 24.3 740	17 Su	0152 6.6 200 0801 23.3 710 1416 5.9 180 2029 23.6 720	2 Tu	0207 3.3 100 0816 25.6 780 1433 3.0 90 2045 26.9 820	17 W	0252 5.6 170 0902 23.0 700 1510 5.9 180 2120 24.0 730
3 F	0048 6.6 200 0659 24.0 730 1325 4.9 150 1937 23.3 710	18 Sa	0228 6.2 190 0838 23.6 720 1454 5.6 170 2108 23.6 720	3 Su	0128 4.9 150 0738 25.3 770 1359 3.6 110 2011 25.3 770	18 M	0244 5.9 180 0853 23.3 710 1505 5.6 170 2116 24.0 730	3 W	0306 2.3 70 0915 26.2 800 1529 2.6 80 2140 27.6 840	18 Th	0338 5.2 160 0948 23.0 700 1554 5.9 180 2203 24.6 750
4 Sa	0153 5.6 170 0804 24.9 760 1426 3.9 120 2037 24.6 750	19 Su	0320 5.6 170 0929 24.0 730 1543 4.9 150 2154 24.0 730	4 M	0229 3.6 110 0838 25.9 790 1457 2.6 80 2108 26.6 810	19 Tu	0332 5.2 160 0940 23.6 720 1550 5.2 160 2159 24.6 750	4 Th	0401 1.6 50 1011 26.2 800 1623 2.6 80 2232 27.9 850	19 F	0421 4.6 140 1031 23.3 710 1636 5.6 170 2244 24.9 760
5 Su	0253 4.3 130 0903 25.9 790 1523 2.6 80 2133 25.9 790	20 M	0407 5.2 160 1015 24.3 740 1626 4.6 140 2235 24.6 750	5 Tu	0326 2.3 70 0935 26.9 820 1551 2.0 60 2201 27.9 850	20 W	0415 4.9 150 1024 24.0 730 1631 5.2 160 2239 24.9 760	5 F	0454 1.3 40 1105 26.6 810 1715 2.6 80 2324 28.2 860	20 Sa	0502 4.3 130 1112 23.6 720 1717 5.6 170 2323 25.3 770
6 M	0348 2.6 80 0958 27.2 830 1616 1.6 50 2225 27.2 830	21 Tu	0448 4.6 140 1056 24.6 750 1705 4.6 140 2312 24.9 760	6 W	0420 1.3 40 1029 27.6 840 1643 1.3 40 2252 28.5 870	21 Th	0454 4.3 130 1103 24.3 740 1709 4.9 150 2316 25.3 770	6 Sa	0546 1.0 30 1157 26.6 810 1806 3.0 90	21 Su	0543 3.6 110 1152 24.0 730 1757 5.2 160
7 Tu	0441 1.3 40 1050 28.2 860 1707 0.7 20 2315 28.5 870	22 W	0526 4.3 130 1134 24.9 760 1741 4.3 130 2347 25.3 770	7 Th	0512 0.7 20 1121 27.6 840 1734 1.3 40 2342 28.9 880	22 F	0532 3.9 120 1141 24.3 740 1746 4.9 150 2351 25.6 780	7 Su	0014 27.9 850 0636 1.3 40 1247 26.2 800 1857 3.6 110	22 M	0003 25.6 780 0623 3.3 100 1232 24.3 740 1838 4.9 150
8 W	0532 0.3 10 1141 28.5 870 1756 0.7 20	23 Th	0601 3.9 120 1209 24.9 760 1816 4.6 140	8 F	0603 0.3 10 1213 27.6 840 1824 2.0 60	23 Sa	0609 3.9 120 1217 24.3 740 1822 5.2 160	8 M	0104 27.6 840 0726 2.0 60 1337 25.6 780 1947 4.3 130	23 Tu	0044 25.9 790 0704 3.3 100 1313 24.6 750 1921 4.9 150
9 Th	0004 28.9 880 0622 0.0 0 1231 28.5 870 1845 0.7 20	24 F	0021 25.6 780 0635 3.6 110 1243 24.6 750 1849 4.6 140	9 Sa	0032 28.9 880 0653 0.7 20 1304 27.2 830 1914 2.6 80	24 Su	0027 25.6 780 0645 3.6 110 1253 24.3 740 1859 5.2 160	9 Tu	0154 26.6 810 0816 3.0 90 1427 24.9 760 2038 4.9 150	24 W	0127 25.9 790 0748 3.0 90 1357 24.6 750 2007 4.6 140
10 F	0053 29.2 890 0712 0.0 0 1322 27.9 850 1935 1.3 40	25 Sa	0054 25.6 780 0710 3.9 120 1317 24.6 750 1924 4.9 150	10 Su	0122 28.2 860 0744 1.3 40 1355 26.2 800 2006 3.3 100	25 M	0104 25.6 780 0724 3.6 110 1332 24.3 740 1939 5.6 170	10 W	0245 25.9 790 0906 3.6 110 1518 24.3 740 2129 5.6 170	25 Th	0213 25.9 790 0835 3.0 90 1444 24.9 760 2056 4.6 140
11 Sa	0142 28.5 870 0803 0.7 20 1414 27.2 830 2026 2.6 80	26 Su	0128 25.3 770 0746 3.9 120 1353 24.3 740 2000 5.2 160	11 M	0213 27.2 830 0835 2.3 70 1448 25.6 780 2059 4.6 140	26 Tu	0144 25.6 780 0805 3.9 120 1414 24.0 730 2022 5.6 170	11 Th	0337 24.9 760 0957 4.6 140 1611 24.0 730 2223 6.2 190	26 F	0303 25.9 790 0925 3.3 100 1535 24.9 760 2149 4.3 130
12 Su	0234 27.6 840 0856 1.6 50 1508 25.9 790 2120 3.9 120	27 M	0205 25.3 770 0824 4.3 130 1432 24.0 730 2041 5.9 180	12 Tu	0307 26.2 800 0929 3.6 110 1543 24.6 750 2154 5.6 170	27 W	0228 25.3 770 0850 3.9 120 1459 24.0 730 2111 5.6 170	12 F	0431 24.0 730 1050 5.2 160 1705 23.3 710 2318 6.6 200	27 Sa	0357 25.6 780 1018 3.3 100 1630 25.3 770 2246 4.3 130
13 M	0329 26.6 810 0951 3.0 90 1605 24.9 760 2217 4.9 150	28 Tu	0247 24.9 760 0908 4.6 140 1517 23.3 710 2127 6.2 190	13 W	0403 25.3 770 1025 4.6 140 1640 23.6 720 2253 6.2 190	28 Th	0317 24.9 760 0940 4.3 130 1551 24.0 730 2204 5.6 170	13 Sa	0527 23.3 710 1144 5.9 180 1759 23.3 710	28 Su	0454 25.3 770 1115 3.6 110 1728 25.3 770 2346 3.9 120
14 Tu	0428 25.3 770 1051 4.3 130 1706 24.0 730 2320 5.9 180	29 W	0334 24.3 740 0957 4.9 150 1608 23.3 710 2220 6.6 200	14 Th	0503 24.3 740 1124 5.2 160 1740 23.3 710 2354 6.6 200	29 F	0412 24.9 760 1036 4.3 130 1648 24.0 730 2303 5.6 170	14 Su	0014 6.6 200 0623 23.0 700 1238 6.2 190 1853 23.3 710	29 M	0555 24.9 760 1214 3.6 110 1827 25.6 780
15 W	0531 24.3 740 1154 5.2 160 1811 23.0 700	30 Th	0429 24.0 730 1054 5.2 160 1706 23.0 700 2320 6.2 190	15 F	0604 23.6 720 1224 5.9 180 1840 23.0 700	30 Sa	0511 24.9 760 1135 4.3 130 1747 24.3 740	15 M	0110 6.6 200 0719 22.6 690 1332 6.2 190 1945 23.3 710	30 Tu	0047 3.6 110 0657 24.9 760 1314 3.6 110 1927 25.9 790
						31 Su	0004 4.9 150 0614 24.9 760 1235 3.9 120 1848 24.9 760				

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to the Canadian chart datum of soundings.

Eastport, Maine, 2020

Times and Heights of High and Low Waters

October					November					December					
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height		
<small>h m</small>	<small>ft</small>	<small>cm</small>	<small>h m</small>	<small>ft</small>	<small>cm</small>	<small>h m</small>	<small>ft</small>	<small>cm</small>	<small>h m</small>	<small>ft</small>	<small>cm</small>	<small>h m</small>	<small>ft</small>	<small>cm</small>	
1 Th O	0421 1022 1640 2241	0.1 18.9 0.3 19.0	3 576 579	16 F ●	0351 0952 1617 2218	-2.1 21.7 -2.5 21.7	-64 661 -76 661	1 Su	0505 1106 1728 2329	0.9 19.2 0.2 18.3	27 585 6 558	16 M	0507 1108 1738 2339	-2.0 22.7 -3.2 21.0	-61 692 -98 640
2 F	0459 1059 1718 2318	0.2 19.0 0.2 18.9	6 579 6 576	17 Sa	0440 1041 1707 2308	-2.5 22.4 -3.2 21.8	-76 683 -98 664	2 M	0542 1141 1805	1.2 19.1 0.3	37 582 9	17 Tu	0558 1158 1829	-1.5 22.3 -2.8	-46 680 -85
3 Sa	0535 1135 1755 2355	0.4 19.0 0.3 18.6	12 579 9 567	18 Su	0529 1130 1757 2359	-2.5 22.6 -3.3 21.5	-76 689 -101 655	3 Tu	0006 0619 1218 1843	18.0 1.6 18.9 0.5	549 49 576 15	18 W	0031 0649 1249 1921	20.3 -0.8 21.5 -2.0	619 -24 655 -61
4 Su	0611 1211 1832	0.8 18.9 0.5	24 576 15	19 M	0619 1219 1849	-2.1 22.3 -2.9	-64 680 -88	4 W	0044 0658 1257 1924	17.6 2.0 18.6 0.9	536 61 567 27	19 Th	0124 0742 1343 2015	19.5 0.1 20.5 -1.0	594 3 625 -30
5 M	0033 0648 1248 1910	18.1 1.3 18.6 0.8	552 40 567 24	20 Tu	0050 0710 1311 1941	20.8 -1.3 21.6 -2.2	634 -40 658 -67	5 Th	0124 0739 1338 2007	17.2 2.4 18.2 1.2	524 73 555 37	20 F	0219 0836 1439 2110	18.6 1.0 19.4 0.0	567 30 591 0
6 Tu	0111 0726 1326 1950	17.6 1.8 18.2 1.2	536 55 555 37	21 W	0144 0803 1405 2037	19.8 -0.3 20.7 -1.2	604 -9 631 -37	6 F	0208 0824 1424 2055	16.9 2.7 17.9 1.4	515 82 546 43	21 Sa ●	0316 0934 1537 2207	17.8 1.8 18.4 0.9	543 55 561 27
7 W	0152 0806 1407 2034	17.1 2.3 17.8 1.6	521 70 543 49	22 Th	0241 0900 1503 2135	18.8 0.8 19.6 -0.2	573 24 597 -6	7 Sa	0258 0914 1516 2148	16.7 2.9 17.7 1.6	509 88 539 49	22 Su	0416 1033 1638 2305	17.3 2.4 17.7 1.5	527 73 539 46
8 Th	0236 0851 1453 2122	16.6 2.8 17.5 1.9	506 85 533 58	23 F ●	0341 1000 1604 2236	17.8 1.7 18.6 0.7	543 52 567 21	8 Su ●	0352 1010 1613 2244	16.7 2.8 17.7 1.5	509 85 539 46	23 M	0516 1134 1739	17.1 2.6 17.3	521 79 527
9 F ●	0326 0941 1545 2216	16.2 3.2 17.2 2.1	494 98 524 64	24 Sa	0445 1103 1709 2339	17.2 2.2 18.0 1.2	524 67 549 37	9 M	0451 1110 1714 2343	17.0 2.5 18.0 1.1	518 76 549 34	24 Tu	0003 0614 1233 1838	1.8 17.2 2.5 17.2	55 524 76 524
10 Sa	0421 1037 1643 2314	16.1 3.2 17.2 2.0	491 98 524 61	25 Su	0550 1207 1813	17.0 2.4 17.7	518 73 539	10 Tu	0550 1211 1815	17.7 1.7 18.5	539 52 564	25 W	0058 0707 1327 1931	1.8 17.5 2.1 17.3	55 533 64 527
11 Su	0520 1138 1743	16.3 2.9 17.6	497 88 536	26 M	0040 0650 1307 1913	1.4 17.2 2.1 17.8	43 524 64 543	11 W	0042 0648 1311 1914	0.4 18.8 0.6 19.3	12 573 18 588	26 Th	0148 0756 1417 2020	1.7 18.0 1.6 17.5	52 549 49 533
12 M	0013 0620 1238 1844	1.5 17.0 2.2 18.3	46 518 67 558	27 Tu	0136 0744 1402 2006	1.2 17.7 1.7 18.0	37 539 52 549	12 Th	0139 0744 1408 2011	-0.4 20.0 -0.6 20.1	-12 610 -18 613	27 F	0235 0840 1502 2105	1.6 18.5 1.1 17.8	49 564 34 543
13 Tu	0112 0718 1337 1941	0.7 18.0 1.1 19.3	21 549 34 588	28 W	0226 0832 1450 2053	1.0 18.2 1.1 18.3	30 555 34 558	13 F	0233 0837 1503 2105	-1.2 21.1 -1.8 20.8	-37 643 -55 634	28 Sa	0317 0921 1544 2146	1.4 18.9 0.6 17.9	43 576 18 546
14 W	0208 0812 1433 2036	-0.3 19.3 -0.2 20.3	-9 588 -6 619	29 Th	0310 0914 1533 2135	0.8 18.7 0.7 18.5	24 570 21 564	14 Sa	0326 0928 1556 2157	-1.8 22.1 -2.7 21.2	-55 674 -82 646	29 Su	0358 1000 1623 2226	1.3 19.1 0.3 18.0	40 582 9 549
15 Th	0300 0903 1526 2128	-1.3 20.6 -1.5 21.2	-40 628 -46 646	30 F	0351 0953 1613 2214	0.7 19.0 0.3 18.6	21 579 9 567	15 Su ●	0417 1018 1647 2248	-2.0 22.6 -3.2 21.3	-61 689 -98 649	30 M O	0437 1038 1702 2304	1.3 19.2 0.2 18.0	40 585 6 549
				31 Sa O	0429 1030 1651 2252	0.7 19.2 0.2 18.5	21 585 6 564								

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Bar Harbor, Maine, 2020

Times and Heights of High and Low Waters

April				May				June			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
	h m ft cm		h m ft cm		h m ft cm		h m ft cm		h m ft cm		h m ft cm
1 W ☉	0346 10.3 314 1016 1.1 34 1630 9.3 283 2232 2.0 61	16 Th	0537 10.3 314 1205 0.9 27 1822 9.7 296	1 F	0423 10.7 326 1052 0.5 15 1709 10.0 305 2316 1.4 43	16 Sa	0602 9.9 302 1223 1.2 37 1839 9.9 302	1 M	0003 0.4 12 0612 11.1 338 1229 -0.1 -3 1845 11.7 357	16 Tu	0100 1.5 46 0706 9.5 290 1313 1.6 49 1926 10.3 314
2 Th	0447 10.4 317 1119 1.0 30 1733 9.5 290 2338 1.8 55	17 F	0030 1.7 52 0641 10.2 311 1304 0.9 27 1920 9.9 302	2 Sa	0528 10.9 332 1155 0.3 9 1810 10.5 320	17 Su	0052 1.6 49 0659 9.9 302 1314 1.2 37 1928 10.1 308	2 Tu	0105 -0.2 -6 0715 11.3 344 1327 -0.3 -9 1942 12.2 372	17 W	0150 1.2 37 0756 9.5 290 1359 1.6 49 2011 10.6 323
3 F	0552 10.7 326 1223 0.6 18 1837 9.9 302	18 Sa	0128 1.5 46 0738 10.3 314 1357 0.9 27 2010 10.1 308	3 Su	0022 0.8 24 0633 11.2 341 1255 -0.1 -3 1910 11.2 341	18 M	0143 1.3 40 0750 9.9 302 1401 1.2 37 2013 10.4 317	3 W	0205 -0.8 -24 0815 11.5 351 1422 -0.4 -12 2036 12.7 387	18 Th	0236 0.9 27 0843 9.6 293 1443 1.5 46 2052 10.9 332
4 Sa	0044 1.2 37 0657 11.2 341 1324 0.1 3 1936 10.7 326	19 Su	0220 1.2 37 0828 10.5 320 1443 0.8 24 2054 10.4 317	4 M	0124 0.1 3 0735 11.6 354 1352 -0.5 -15 2005 12.0 366	19 Tu	0230 1.0 30 0837 10.1 308 1444 1.1 34 2054 10.7 326	4 Th	0301 -1.3 -40 0912 11.6 354 1516 -0.6 -15 2129 13.0 396	19 F	0319 0.5 15 0926 9.8 299 1524 1.4 43 2132 11.1 338
5 Su	0145 0.5 15 0758 11.8 360 1420 -0.6 -18 2031 11.5 351	20 M	0305 0.8 24 0913 10.6 323 1524 0.7 21 2133 10.7 326	5 Tu	0222 -0.7 -21 0833 12.0 366 1446 -0.9 -27 2058 12.7 387	20 W	0313 0.6 18 0920 10.2 311 1523 1.1 34 2131 10.9 332	5 F ☉	0355 -1.6 -49 1006 11.7 357 1608 -0.4 -12 2219 13.1 399	20 Sa	0400 0.2 6 1008 9.9 302 1604 1.3 40 2212 11.3 344
6 M	0242 -0.4 -12 0854 12.4 378 1512 -1.1 -34 2123 12.3 375	21 Tu	0346 0.5 15 0953 10.7 326 1601 0.6 18 2208 10.9 332	6 W	0317 -1.4 -43 0928 12.3 375 1537 -1.1 -34 2149 13.2 402	21 Th	0353 0.4 12 1000 10.2 311 1600 1.1 34 2207 11.1 338	6 Sa	0446 -1.7 -52 1058 11.6 354 1659 -0.2 -6 2309 12.9 393	21 Su ●	0440 0.0 0 1048 10.1 308 1644 1.2 37 2251 11.5 351
7 Tu ☉	0336 -1.2 -37 0947 12.8 390 1602 -1.5 -46 2212 12.9 393	22 W ●	0423 0.3 9 1030 10.7 326 1636 0.7 21 2241 11.1 338	7 Th ☉	0410 -1.9 -58 1021 12.4 378 1627 -1.1 -34 2238 13.4 408	22 F ●	0430 0.2 6 1037 10.2 311 1636 1.1 34 2242 11.2 341	7 Su	0537 -1.5 -46 1149 11.4 347 1749 0.1 3 2359 12.6 384	22 M	0519 -0.2 -6 1129 10.2 311 1725 1.1 34 2333 11.7 357
8 W	0427 -1.8 -55 1039 13.0 396 1650 -1.6 -49 2300 13.3 405	23 Th	0458 0.2 6 1105 10.6 323 1709 0.8 24 2314 11.1 338	8 F	0501 -2.1 -64 1113 12.3 375 1717 -0.9 -27 2328 13.3 405	23 Sa	0506 0.0 0 1114 10.2 311 1711 1.2 37 2317 11.3 344	8 M	0627 -1.2 -37 1240 11.0 335 1840 0.5 15	23 Tu	0601 -0.4 -12 1211 10.4 317 1808 1.0 30
9 Th	0518 -2.1 -64 1130 12.9 393 1739 -1.4 -43 2349 13.4 408	24 F	0533 0.1 3 1140 10.5 320 1741 1.0 30 2346 11.1 338	9 Sa	0553 -1.9 -58 1205 12.0 366 1808 -0.4 -12	24 Su	0543 0.0 0 1152 10.2 311 1748 1.3 40 2355 11.3 344	9 Tu	0049 12.1 369 0717 -0.7 -21 1330 10.7 326 1932 0.9 27	24 W	0017 11.8 360 0644 -0.5 -15 1256 10.5 320 1855 0.9 27
10 F	0610 -2.0 -61 1222 12.5 381 1829 -1.0 -30	25 Sa	0607 0.2 6 1215 10.3 314 1815 1.2 37	10 Su	0018 12.9 393 0644 -1.5 -46 1257 11.5 351 1900 0.1 3	25 M	0621 0.0 0 1231 10.1 308 1828 1.3 40	10 W	0140 11.5 351 0808 -0.2 -6 1422 10.3 314 2025 1.3 40	25 Th	0104 11.8 360 0731 -0.5 -15 1344 10.7 326 1946 0.8 24
11 Sa	0039 13.1 399 0702 -1.7 -52 1315 11.9 363 1920 -0.4 -12	26 Su	0020 11.1 338 0643 0.3 9 1252 10.1 308 1850 1.4 43	11 M	0110 12.4 378 0738 -1.0 -30 1352 10.9 332 1954 0.7 21	26 Tu	0035 11.3 344 0703 0.0 0 1314 10.1 308 1911 1.4 43	11 Th	0232 10.9 332 0859 0.3 9 1514 10.1 308 2120 1.6 49	26 F	0155 11.7 357 0820 -0.5 -15 1435 10.9 332 2041 0.7 21
12 Su	0132 12.6 384 0757 -1.1 -34 1411 11.2 341 2016 0.3 9	27 M	0057 11.0 335 0722 0.4 12 1333 9.9 302 1931 1.6 49	12 Tu	0204 11.7 357 0833 -0.3 -9 1448 10.4 317 2052 1.2 37	27 W	0120 11.3 344 0748 0.0 0 1401 10.1 308 2000 1.4 43	12 F	0326 10.4 317 0951 0.8 24 1606 9.9 302 2216 1.8 55	27 Sa	0250 11.5 351 0913 -0.4 -12 1529 11.1 338 2140 0.6 18
13 M	0227 11.9 363 0856 -0.5 -15 1510 10.6 323 2115 1.0 30	28 Tu	0139 10.9 332 0806 0.5 15 1418 9.8 299 2017 1.7 52	13 W	0301 11.0 335 0930 0.2 6 1547 10.0 305 2152 1.6 49	28 Th	0210 11.2 341 0838 0.1 3 1453 10.2 311 2055 1.3 40	13 Sa ●	0421 10.0 305 1043 1.1 34 1659 9.8 299 2312 1.8 55	28 Su ●	0348 11.3 344 1009 -0.2 -6 1626 11.3 344 2242 0.4 12
14 Tu ☉	0327 11.2 341 0957 0.2 6 1614 10.0 305 2220 1.5 46	29 W	0227 10.8 329 0856 0.6 18 1510 9.7 296 2110 1.8 55	14 Th ●	0401 10.5 320 1029 0.7 21 1646 9.8 299 2254 1.8 55	29 F ●	0305 11.1 338 0932 0.1 3 1548 10.4 317 2155 1.2 37	14 Su	0517 9.7 296 1134 1.4 43 1750 9.9 302	29 M	0450 11.0 335 1107 0.0 0 1724 11.6 354 2346 0.1 3
15 W	0431 10.7 326 1102 0.6 18 1719 9.7 296 2326 1.8 55	30 Th ●	0322 10.7 326 0952 0.6 18 1607 9.7 296 2211 1.7 52	15 F	0502 10.1 308 1127 1.0 30 1744 9.7 296 2355 1.8 55	30 Sa	0404 11.0 335 1030 0.1 3 1647 10.7 326 2258 0.9 27	15 M	0007 1.7 52 0612 9.5 290 1224 1.5 46 1839 10.1 308	30 Tu	0554 10.9 332 1206 0.1 3 1824 11.9 363
						31 Su	0508 11.0 335 1129 0.0 0 1747 11.1 338				

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Portland, Maine, 2020

Times and Heights of High and Low Waters

January				February				March			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm
1 W	0313 8.4 256 0908 1.5 46 1519 8.6 262 2138 0.9 27	16 Th	0304 9.9 302 0909 -0.1 -3 1524 10.0 305 2139 -0.6 -18	1 Sa	0352 8.5 259 1004 1.4 43 1615 7.9 241 2218 1.4 43	16 Su	0435 9.9 302 1058 -0.1 -3 1716 8.8 268 2315 0.6 18	1 Su	0302 8.8 268 0921 1.0 30 1534 8.0 244 2133 1.4 43	16 M	0410 9.9 302 1037 -0.1 -3 1658 8.7 265 2254 1.0 30
2 Th	0400 8.3 253 1001 1.7 52 1611 8.3 253 2224 1.2 37	17 F	0401 9.9 302 1012 0.0 0 1626 9.5 290 2237 -0.2 -6	2 Su	0439 8.5 259 1057 1.4 43 1710 7.6 232 2307 1.6 49	17 M	0538 9.7 296 1207 0.1 3 1825 8.4 256	2 M	0348 8.7 265 1012 1.1 34 1626 7.7 235 2223 1.6 49	17 Tu	0515 9.4 287 1146 0.3 9 1806 8.3 253
3 F	0449 8.3 253 1055 1.7 52 1705 8.0 244 2312 1.4 43	18 Sa	0500 9.9 302 1117 0.1 3 1732 9.0 274 2337 0.2 6	3 M	0530 8.5 259 1154 1.3 40 1809 7.5 229	18 Tu	0022 1.0 30 0644 9.5 290 1317 0.2 6 1933 8.4 256	3 Tu	0440 8.7 265 1108 1.1 34 1724 7.6 232 2319 1.7 52	18 W	0003 1.4 43 0623 9.2 280 1256 0.5 15 1914 8.3 253
4 Sa	0538 8.4 256 1152 1.6 49 1802 7.8 238	19 Su	0601 9.9 302 1225 0.0 0 1841 8.8 268	4 Tu	0002 1.7 52 0625 8.7 265 1254 1.1 34 1910 7.7 235	19 W	0130 1.1 34 0748 9.5 290 1420 0.1 3 2034 8.5 259	4 W	0538 8.8 268 1210 1.0 30 1828 7.7 235	19 Th	0112 1.4 43 0729 9.1 277 1359 0.5 15 2014 8.4 256
5 Su	0003 1.5 46 0628 8.6 262 1249 1.4 43 1900 7.8 238	20 M	0041 0.5 15 0704 9.9 302 1332 -0.1 -3 1947 8.7 265	5 W	0100 1.5 46 0721 9.1 277 1352 0.6 18 2007 8.0 244	20 Th	0230 1.0 30 0846 9.6 293 1514 -0.1 -3 2126 8.6 262	5 Th	0021 1.6 49 0641 9.1 277 1314 0.6 18 1931 8.0 244	20 F	0213 1.2 37 0827 9.2 280 1452 0.3 9 2105 8.7 265
6 M	0055 1.5 46 0718 8.9 271 1343 1.0 30 1954 7.9 241	21 Tu	0144 0.6 18 0803 10.0 305 1433 -0.3 -9 2046 8.8 268	6 Th	0156 1.2 37 0815 9.6 293 1444 0.1 3 2058 8.4 256	21 F	0322 0.8 24 0936 9.8 299 1601 -0.2 -6 2213 8.8 268	6 F	0124 1.1 34 0743 9.6 293 1412 0.0 0 2028 8.6 262	21 Sa	0305 0.9 27 0917 9.4 287 1538 0.2 6 2149 8.9 271
7 Tu	0145 1.4 43 0805 9.2 280 1431 0.5 15 2043 8.2 250	22 W	0241 0.6 18 0858 10.1 308 1527 -0.5 -15 2140 8.9 271	7 F	0248 0.7 21 0906 10.1 308 1533 -0.5 -15 2147 8.9 271	22 Sa	0408 0.6 18 1021 9.8 299 1644 -0.2 -6 2255 8.9 271	7 Sa	0222 0.5 15 0840 10.2 311 1505 -0.6 -18 2119 9.3 283	22 Su	0350 0.7 21 1001 9.5 290 1618 0.2 6 2228 9.1 277
8 W	0232 1.1 34 0850 9.6 293 1516 0.0 0 2130 8.5 259	23 Th	0333 0.5 15 0948 10.2 311 1616 -0.6 -18 2229 8.9 271	8 Sa	0338 0.2 6 0956 10.7 326 1621 -1.1 -34 2235 9.4 287	23 Su	0450 0.5 15 1103 9.8 299 1721 -0.2 -6 2332 9.0 274	8 Su	0317 -0.2 -6 0934 10.8 329 1555 -1.2 -37 2209 10.0 305	23 M	0430 0.5 15 1041 9.5 290 1653 0.2 6 2304 9.3 283
9 Th	0317 0.8 24 0934 10.1 308 1601 -0.4 -12 2215 8.8 268	24 F	0421 0.5 15 1035 10.2 311 1701 -0.6 -18 2314 9.0 274	9 Su	0428 -0.4 -12 1045 11.1 338 1708 -1.5 -46 2322 9.9 302	24 M	0529 0.4 12 1140 9.8 299 1756 -0.1 -3	9 M	0409 -0.8 -24 1026 11.2 341 1643 -1.6 -49 2257 10.6 323	24 Tu	0507 0.3 9 1118 9.5 290 1725 0.2 6 2337 9.4 287
10 F	0402 0.5 15 1018 10.5 320 1645 -0.8 -24 2259 9.1 277	25 Sa	0505 0.5 15 1119 10.1 308 1743 -0.5 -15 2355 9.0 274	10 M	0518 -0.8 -24 1134 11.3 344 1755 -1.7 -52	25 Tu	0007 9.1 277 0605 0.4 12 1216 9.6 293 1828 0.0 0	10 Tu	0501 -1.4 -43 1117 11.4 347 1731 -1.8 -55 2345 11.0 335	25 W	0542 0.2 6 1153 9.4 287 1756 0.4 12
11 Sa	0448 0.2 6 1104 10.8 329 1730 -1.1 -34 2344 9.4 287	26 Su	0547 0.5 15 1159 10.0 305 1821 -0.3 -9	11 Tu	0009 10.3 314 0609 -1.1 -34 1224 11.3 344 1842 -1.7 -52	26 W	0040 9.1 277 0640 0.4 12 1251 9.4 287 1900 0.2 6	11 W	0552 -1.7 -52 1207 11.4 347 1818 -1.7 -52	26 Th	0008 9.4 287 0615 0.2 6 1227 9.2 280 1827 0.5 15
12 Su	0536 -0.1 -3 1151 11.0 335 1816 -1.3 -40	27 M	0034 8.9 271 0626 0.6 18 1238 9.8 299 1858 -0.1 -3	12 W	0057 10.5 320 0700 -1.1 -34 1315 11.1 338 1930 -1.5 -46	27 Th	0112 9.1 277 0716 0.5 15 1327 9.0 274 1933 0.5 15	12 Th	0032 11.2 341 0643 -1.7 -52 1259 11.0 335 1907 -1.4 -43	27 F	0038 9.4 287 0649 0.3 9 1301 9.0 274 1859 0.8 24
13 M	0031 9.6 293 0625 -0.3 -9 1239 11.0 335 1903 -1.4 -43	28 Tu	0111 8.8 268 0706 0.8 24 1317 9.4 287 1934 0.2 6	13 Th	0146 10.6 323 0754 -1.0 -30 1409 10.6 323 2021 -1.1 -34	28 F	0146 9.0 274 0754 0.7 21 1405 8.7 265 2009 0.8 24	13 F	0121 11.1 338 0736 -1.5 -46 1352 10.5 320 1957 -0.9 -27	28 Sa	0109 9.4 287 0725 0.3 9 1337 8.7 265 1934 1.0 30
14 Tu	0118 9.8 299 0716 -0.3 -9 1330 10.8 329 1952 -1.2 -37	29 W	0149 8.7 265 0746 0.9 27 1356 9.1 277 2011 0.5 15	14 F	0239 10.5 320 0851 -0.8 -24 1507 9.9 302 2115 -0.5 -15	29 Sa	0222 8.9 271 0835 0.8 24 1447 8.3 253 2048 1.1 34	14 Sa	0213 10.8 329 0832 -1.1 -34 1450 9.8 299 2051 -0.2 -6	29 Su	0144 9.3 283 0804 0.5 15 1417 8.4 256 2013 1.3 40
15 W	0209 9.8 299 0810 -0.3 -9 1424 10.4 317 2044 -1.0 -30	30 Th	0228 8.6 262 0829 1.1 34 1439 8.7 265 2050 0.8 24	15 Sa	0335 10.2 311 0953 -0.4 -12 1609 9.3 283 2213 0.1 3			15 Su	0309 10.4 317 0933 -0.6 -18 1552 9.2 280 2150 0.5 15	30 M	0223 9.1 277 0848 0.6 18 1502 8.1 247 2058 1.5 46
		31 F	0309 8.6 262 0915 1.3 40 1525 8.3 253 2132 1.1 34							31 Tu	0310 9.0 274 0938 0.8 24 1554 7.9 241 2150 1.6 49

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Portland, Maine, 2020

Times and Heights of High and Low Waters

April				May				June			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft	h m	ft	h m	ft	h m	ft	h m	ft	h m	ft
1 W	0403 9.0 274 1034 0.8 24 1652 7.9 241 2247 1.7 52	16 Th	0555 9.0 274 1226 0.8 24 1845 8.4 256	1 F	0439 9.4 287 1108 0.4 12 1730 8.6 262 2329 1.2 37	16 Sa	0012 1.8 55 0621 8.6 262 1243 1.1 34 1902 8.7 265	1 M	0016 0.5 15 0629 9.6 293 1243 -0.1 -3 1905 10.2 311	16 Tu	0122 1.5 46 0727 8.2 250 1329 1.5 46 1949 9.1 277
2 Th	0503 9.0 274 1135 0.8 24 1755 8.0 244 2351 1.5 46	17 F	0047 1.6 49 0700 8.9 271 1327 0.8 24 1943 8.5 259	2 Sa	0544 9.5 290 1210 0.2 6 1831 9.1 277	17 Su	0112 1.6 49 0719 8.6 262 1335 1.1 34 1952 8.9 271	2 Tu	0121 0.0 0 0733 9.7 296 1341 -0.2 -6 2001 10.7 326	17 W	0211 1.2 37 0818 8.2 250 1414 1.5 46 2032 9.4 287
3 F	0609 9.2 280 1239 0.5 15 1859 8.5 259	18 Sa	0148 1.4 43 0758 8.9 271 1419 0.8 24 2033 8.8 268	3 Su	0035 0.8 24 0650 9.7 296 1310 -0.1 -3 1930 9.7 296	18 M	0205 1.3 40 0811 8.6 262 1420 1.1 34 2035 9.2 280	3 W	0221 -0.6 -18 0834 9.9 302 1436 -0.3 -9 2054 11.1 338	18 Th	0256 0.8 24 0905 8.3 253 1455 1.4 43 2112 9.6 293
4 Sa	0057 1.0 30 0715 9.7 296 1341 0.0 0 1958 9.1 277	19 Su	0240 1.1 34 0849 9.0 274 1504 0.7 21 2116 9.1 277	4 M	0139 0.1 3 0753 10.1 308 1407 -0.4 -12 2025 10.4 317	19 Tu	0251 1.0 30 0858 8.7 265 1501 1.1 34 2115 9.4 287	4 Th	0317 -1.0 -30 0931 10.0 305 1528 -0.3 -9 2145 11.4 347	19 F	0338 0.5 15 0949 8.4 256 1536 1.4 43 2151 9.8 299
5 Su	0159 0.3 9 0816 10.2 311 1436 -0.6 -18 2052 9.9 302	20 M	0324 0.8 24 0933 9.1 277 1543 0.6 18 2154 9.3 283	5 Tu	0238 -0.6 -18 0851 10.4 317 1500 -0.7 -21 2116 11.0 335	20 W	0333 0.7 21 0941 8.8 268 1538 1.1 34 2152 9.6 293	5 F	0411 -1.4 -43 1026 10.0 305 1620 -0.2 -6 2236 11.5 351	20 Sa	0418 0.2 6 1031 8.6 262 1615 1.3 40 2231 10.0 305
6 M	0256 -0.4 -12 0912 10.7 326 1527 -1.1 -34 2142 10.6 323	21 Tu	0405 0.5 15 1014 9.2 280 1618 0.6 18 2230 9.5 290	6 W	0333 -1.2 -37 0947 10.6 323 1551 -0.9 -27 2206 11.5 351	21 Th	0411 0.4 12 1022 8.8 268 1613 1.1 34 2227 9.8 299	6 Sa	0503 -1.5 -46 1119 10.0 305 1711 0.0 0 2326 11.4 347	21 Su	0457 0.0 0 1113 8.7 265 1656 1.1 34 ● 2311 10.2 311
7 Tu	0350 -1.1 -34 1006 11.0 335 1617 -1.4 -43 2231 11.2 341	22 W	0441 0.3 9 1052 9.2 280 1651 0.7 21 ● 2303 9.7 296	7 Th	0426 -1.7 -52 1041 10.7 326 1641 -0.9 -27 2256 11.7 357	22 F	0448 0.2 6 1101 8.8 268 1649 1.1 34 ● 2302 9.9 302	7 Su	0554 -1.4 -43 1211 9.8 299 1802 0.2 6	22 M	0538 -0.2 -6 1154 8.8 268 1738 1.0 30 2352 10.3 314
8 W	0443 -1.7 -52 1058 11.2 341 1705 -1.5 -46 2319 11.5 351	23 Th	0516 0.2 6 1128 9.1 277 1723 0.8 24 2334 9.7 296	8 F	0518 -1.9 -58 1134 10.6 323 1731 -0.7 -21 2345 11.7 357	23 Sa	0524 0.1 3 1139 8.8 268 1725 1.2 37 2337 10.0 305	8 M	0016 11.1 338 0644 -1.1 -34 1302 9.5 290 1852 0.5 15	23 Tu	0619 -0.3 -9 1236 8.9 271 1822 0.9 27
9 Th	0534 -2.0 -61 1150 11.1 338 1754 -1.3 -40	24 F	0550 0.1 3 1203 9.0 274 1755 0.9 27	9 Sa	0609 -1.8 -55 1226 10.3 314 1821 -0.3 -9	24 Su	0601 0.0 0 1217 8.8 268 1802 1.2 37	9 Tu	0106 10.7 326 0734 -0.7 -21 1353 9.3 283 1944 0.9 27	24 W	0035 10.4 317 0703 -0.4 -12 1319 9.1 277 1909 0.8 24
10 F	0008 11.6 354 0626 -2.0 -61 1242 10.8 329 1843 -0.9 -27	25 Sa	0006 9.7 296 0624 0.1 3 1239 8.8 268 1829 1.1 34	10 Su	0035 11.4 347 0701 -1.5 -46 1319 9.9 302 1912 0.2 6	25 M	0013 10.0 305 0639 -0.1 -3 1256 8.7 265 1843 1.2 37	10 W	0157 10.2 311 0825 -0.2 -6 1445 9.0 274 2037 1.3 40	25 Th	0122 10.4 317 0749 -0.5 -15 1407 9.2 280 2000 0.8 24
11 Sa	0057 11.4 347 0718 -1.7 -52 1336 10.3 314 1934 -0.4 -12	26 Su	0039 9.7 296 0700 0.1 3 1315 8.7 265 1906 1.2 37	11 M	0126 10.9 332 0754 -1.0 -30 1414 9.5 290 2006 0.7 21	26 Tu	0053 10.0 305 0721 -0.1 -3 1337 8.7 265 1926 1.3 40	11 Th	0250 9.7 296 0917 0.3 9 1539 8.8 268 2133 1.5 46	26 F	0212 10.3 314 0838 -0.4 -12 1457 9.4 287 2055 0.7 21
12 Su	0148 11.0 335 0813 -1.2 -37 1432 9.7 296 2029 0.3 9	27 M	0115 9.6 293 0740 0.2 6 1355 8.5 259 1947 1.4 43	12 Tu	0220 10.3 314 0850 -0.4 -12 1512 9.0 274 2104 1.2 37	27 W	0137 9.9 302 0806 0.0 0 1424 8.7 265 2015 1.3 40	12 F	0345 9.2 280 1009 0.6 18 1631 8.7 265 2231 1.7 52	27 Sa	0307 10.1 308 0930 -0.4 -12 1551 9.6 293 2154 0.6 18
13 M	0244 10.4 317 0912 -0.6 -18 1533 9.1 277 2128 0.9 27	28 Tu	0156 9.5 290 0824 0.3 9 1441 8.3 253 2033 1.5 46	13 W	0319 9.7 296 0948 0.2 6 1611 8.7 265 2205 1.5 46	28 Th	0226 9.9 302 0856 0.0 0 1516 8.8 268 2110 1.2 37	13 Sa	0440 8.8 268 1059 1.0 30 1722 8.7 265 ● 2328 1.8 55	28 Su	0406 9.8 299 1024 -0.2 -6 1647 9.9 302 ● 2256 0.5 15
14 Tu	0345 9.8 299 1015 0.0 0 1637 8.7 265 ● 2232 1.4 43	29 W	0243 9.4 287 0914 0.4 12 1532 8.3 253 2126 1.5 46	14 Th	0419 9.2 280 1047 0.6 18 1710 8.5 259 ● 2308 1.7 52	29 F	0321 9.8 299 0950 0.0 0 1611 9.0 274 ● 2209 1.1 34	14 Su	0536 8.5 259 1150 1.2 37 1813 8.8 268	29 M	0508 9.6 293 1120 0.0 0 1744 10.1 308
15 W	0449 9.3 283 1120 0.5 15 1742 8.4 256 2339 1.6 49	30 Th	0338 9.4 287 1009 0.5 15 1629 8.3 253 ● 2225 1.5 46	15 F	0520 8.9 271 1146 0.9 27 1808 8.5 259	30 Sa	0421 9.7 296 1045 0.0 0 1708 9.3 283 2311 0.9 27	15 M	0026 1.7 52 0632 8.3 253 1240 1.4 43 1903 8.9 271	30 Tu	0000 0.2 6 0612 9.4 287 1219 0.1 3 1842 10.4 317
						31 Su	0524 9.6 293 1143 0.0 0 1807 9.7 296				

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Portland, Maine, 2020

Times and Heights of High and Low Waters

July				August				September			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>
1 W	0105 0.0 0 0718 9.3 283 1319 0.2 6 1940 10.6 323	16 Th	0125 1.3 40 0735 7.9 241 1325 1.7 52 1947 9.2 280	1 Sa	0255 -0.3 -9 0908 9.0 274 1501 0.7 21 2119 10.5 320	16 Su	0226 0.7 21 0839 8.2 250 1427 1.3 40 2046 9.9 302	1 Tu	0420 -0.1 -3 1032 9.2 280 1628 0.6 18 2242 10.1 308	16 W	0329 -0.6 -18 0942 9.8 299 1542 -0.3 -9 2159 11.0 335
2 Th	0207 -0.4 -12 0820 9.3 283 1417 0.3 9 2036 10.9 332	17 F	0216 1.0 30 0826 8.0 244 1414 1.6 49 2033 9.5 290	2 Su	0348 -0.4 -12 1002 9.1 277 1553 0.6 18 2210 10.5 320	17 M	0314 0.2 6 0927 8.7 265 1517 0.8 24 2134 10.4 317	2 W	0501 -0.1 -3 1113 9.3 283 1710 0.5 15 2323 10.0 305	17 Th	0416 -1.0 -30 1029 10.4 317 1633 -0.8 -24 2249 11.2 341
3 F	0305 -0.7 -21 0918 9.4 287 1512 0.3 9 2129 11.0 335	18 Sa	0302 0.6 18 0914 8.2 250 1500 1.4 43 2118 9.8 299	3 M	0438 -0.5 -15 1051 9.2 280 1642 0.6 18 2258 10.5 320	18 Tu	0400 -0.3 -9 1013 9.2 280 1605 0.3 9 2222 10.8 329	3 Th	0539 0.0 0 1150 9.3 283 1749 0.5 15	18 F	0503 -1.3 -40 1116 10.9 332 1724 -1.2 -37 2339 11.3 344
4 Sa	0359 -0.9 -27 1013 9.4 287 1604 0.3 9 2221 11.0 335	19 Su	0346 0.3 9 0959 8.5 259 1544 1.1 34 2202 10.2 311	4 Tu	0523 -0.4 -12 1136 9.2 280 1728 0.6 18 2343 10.4 317	19 W	0445 -0.8 -24 1059 9.7 296 1654 -0.1 -3 2311 11.1 338	4 F	0001 9.8 299 0613 0.2 6 1225 9.3 283 1827 0.6 18	19 Sa	0550 -1.3 -40 1204 11.2 341 1815 -1.4 -43
5 Su	0450 -0.9 -27 1106 9.4 287 1656 0.4 12 2311 10.9 332	20 M	0430 -0.1 -3 1044 8.8 268 1630 0.8 24 2246 10.5 320	5 W	0605 -0.3 -9 1219 9.2 280 1812 0.7 21	20 Th	0531 -1.1 -34 1145 10.1 308 1744 -0.5 -15 2359 11.2 341	5 Sa	0039 9.5 290 0647 0.5 15 1300 9.3 283 1905 0.7 21	20 Su	0031 11.1 338 0638 -1.2 -37 1253 11.3 344 1908 -1.4 -43
6 M	0540 -0.9 -27 1155 9.4 287 1745 0.5 15	21 Tu	0513 -0.5 -15 1128 9.1 277 1716 0.5 15 2332 10.7 326	6 Th	0025 10.1 308 0645 -0.1 -3 1258 9.2 280 1854 0.8 24	21 F	0617 -1.2 -37 1231 10.5 320 1834 -0.7 -21	6 Su	0116 9.2 280 0721 0.7 21 1334 9.2 280 1943 0.8 24	21 M	0124 10.7 326 0728 -0.8 -24 1344 11.1 338 2003 -1.1 -34
7 Tu	0000 10.7 326 0627 -0.7 -21 1242 9.3 283 1833 0.7 21	22 W	0557 -0.7 -21 1212 9.4 287 1803 0.3 9	7 F	0106 9.8 299 0723 0.2 6 1338 9.1 277 1936 1.0 30	22 Sa	0049 11.1 338 0704 -1.2 -37 1319 10.7 326 1927 -0.8 -24	7 M	0155 8.9 271 0757 1.1 34 1411 9.1 277 2025 1.0 30	22 Tu	0220 10.2 311 0822 -0.2 -6 1439 10.8 329 2103 -0.7 -21
8 W	0046 10.4 317 0712 -0.4 -12 1328 9.1 277 1920 0.9 27	23 Th	0018 10.9 332 0642 -0.9 -27 1257 9.7 296 1852 0.1 3	8 Sa	0147 9.4 287 0801 0.5 15 1417 9.0 274 2019 1.1 34	23 Su	0141 10.8 329 0753 -0.9 -27 1410 10.7 326 2022 -0.7 -21	8 Tu	0237 8.5 259 0837 1.4 43 1452 8.9 271 2110 1.2 37	23 W	0322 9.6 293 0921 0.3 9 1540 10.4 317 2207 -0.2 -6
9 Th	0132 10.0 305 0756 0.0 0 1414 9.0 274 2008 1.2 37	24 F	0106 10.8 329 0728 -0.9 -27 1345 9.9 302 1944 0.0 0	9 Su	0230 9.0 274 0840 0.8 24 1458 8.9 271 2105 1.3 40	24 M	0237 10.3 314 0845 -0.5 -15 1504 10.6 323 2121 -0.4 -12	9 W	0324 8.1 247 0921 1.7 52 1537 8.8 268 2159 1.3 40	24 Th	0427 9.1 277 1024 0.8 24 1645 10.0 305 2314 0.1 3
10 F	0219 9.6 293 0840 0.3 9 1500 8.9 271 2057 1.4 43	25 Sa	0157 10.6 323 0817 -0.8 -24 1435 10.1 308 2040 0.0 0	10 M	0315 8.6 262 0921 1.2 37 1541 8.9 271 2153 1.4 43	25 Tu	0337 9.7 296 0941 0.0 0 1602 10.4 317 2224 -0.2 -6	10 Th	0415 7.9 241 1009 1.9 58 1627 8.8 268 2253 1.4 43	25 F	0535 8.8 268 1131 1.2 37 1752 9.7 296
11 Sa	0307 9.1 277 0925 0.7 21 1546 8.8 268 2148 1.5 46	26 Su	0252 10.3 314 0908 -0.6 -18 1529 10.2 311 2138 0.0 0	11 Tu	0404 8.2 250 1005 1.5 46 1627 8.8 268 2244 1.5 46	26 W	0441 9.2 280 1041 0.5 15 1703 10.2 311 2330 0.1 3	11 F	0510 7.7 235 1102 2.0 61 1722 8.8 268 2352 1.3 40	26 Sa	0023 0.4 12 0642 8.7 265 1240 1.3 40 1859 9.6 293
12 Su	0357 8.7 265 1010 1.0 30 1633 8.8 268 2241 1.6 49	27 M	0352 9.8 299 1002 -0.2 -6 1624 10.3 314 2240 0.1 3	12 W	0456 7.9 241 1052 1.7 52 1715 8.8 268 2338 1.5 46	27 Th	0548 8.9 271 1145 0.8 24 1808 10.0 305	12 Sa	0610 7.8 238 1200 1.9 58 1822 9.1 277	27 Su	0128 0.4 12 0744 8.8 268 1344 1.1 34 1959 9.6 293
13 M	0449 8.3 253 1055 1.3 40 1720 8.8 268 2334 1.6 49	28 Tu	0454 9.4 287 1059 0.1 3 1723 10.3 314 2345 0.1 3	13 Th	0552 7.7 235 1144 1.9 58 1808 8.9 271	28 F	0039 0.2 6 0656 8.7 265 1252 1.0 30 1913 10.0 305	13 Su	0052 1.0 30 0710 8.0 244 1301 1.6 49 1921 9.5 290	28 M	0225 0.3 9 0838 9.0 274 1439 0.9 27 2052 9.7 296
14 Tu	0543 8.0 244 1143 1.6 49 1809 8.9 271	29 W	0559 9.1 277 1200 0.5 15 1823 10.3 314	14 F	0036 1.4 43 0651 7.7 235 1239 1.9 58 1902 9.1 277	29 Sa	0145 0.1 3 0800 8.7 265 1356 1.0 30 2014 10.0 305	14 M	0150 0.6 18 0804 8.5 259 1358 1.0 30 2016 10.0 305	29 Tu	0313 0.2 6 0925 9.2 280 1527 0.7 21 2139 9.8 299
15 W	0030 1.5 46 0639 7.9 241 1234 1.7 52 1858 9.0 274	30 Th	0052 0.0 0 0706 8.9 271 1303 0.7 21 1925 10.3 314	15 Sa	0133 1.1 34 0747 7.9 241 1335 1.6 49 1956 9.5 290	30 Su	0243 0.0 0 0856 8.9 271 1452 0.9 27 2108 10.1 308	15 Tu	0241 0.0 0 0855 9.1 277 1451 0.4 12 2108 10.5 320	30 W	0355 0.2 6 1006 9.4 287 1610 0.5 15 2221 9.7 296
		31 F	0156 -0.1 -3 0810 8.9 271 1404 0.7 21 2024 10.4 317			31 M	0334 -0.1 -3 0946 9.0 274 1542 0.7 21 2157 10.2 311				

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Portland, Maine, 2020

Times and Heights of High and Low Waters

October				November				December															
Time	Height			Time	Height			Time	Height			Time	Height										
	h	m	ft cm		h	m	ft cm		h	m	ft cm		h	m	ft cm								
1 Th O	0433 1044 1649 2300	0.3 9.5 0.4 9.6	9 290 12 293	16 F ●	0347 1001 1613 2228	-1.0 11.1 -1.4 11.1	-30 338 -43 338	1 Su	0507 1118 1735 2348	0.9 9.7 0.2 9.0	27 296 6 274	16 M	0501 1116 1740 2357	-0.9 11.8 -2.0 10.5	-27 360 -61 320	1 Tu	0511 1123 1746	1.1 9.8 0.0	34 299 0	16 W	0535 1150 1817	-0.3 11.4 -1.6	-9 347 -49
2 F	0508 1119 1726 2337	0.4 9.6 0.3 9.5	12 293 9 290	17 Sa	0435 1049 1705 2320	-1.2 11.5 -1.8 11.1	-37 351 -55 338	2 M	0540 1151 1809	1.0 9.7 0.2	30 296 6	17 Tu	0552 1207 1833	-0.6 11.6 -1.7	-18 354 -52	2 W	0002 0547 1158 1823	8.6 1.2 9.8 0.0	262 37 299 0	17 Th	0034 0626 1241 1908	9.8 -0.1 11.0 -1.2	299 -3 335 -37
3 Sa	0540 1151 1801	0.6 9.6 0.4	18 293 12	18 Su	0524 1138 1757	-1.2 11.7 -1.9	-37 357 -58	3 Tu	0024 0613 1224 1845	8.8 1.2 9.6 0.3	268 37 293 9	18 W	0050 0645 1259 1926	10.1 -0.2 11.2 -1.3	308 -6 341 -40	3 Th	0039 0625 1235 1902	8.5 1.2 9.7 0.1	259 37 296 3	18 F	0126 0718 1333 2000	9.5 0.3 10.5 -0.7	290 9 320 -21
4 Su	0013 0612 1223 1835	9.3 0.8 9.5 0.4	283 24 290 12	19 M	0013 0614 1228 1849	10.9 -0.9 11.6 -1.7	332 -27 354 -52	4 W	0100 0649 1259 1923	8.6 1.4 9.5 0.5	262 43 290 15	19 Th	0145 0739 1354 2023	9.7 0.3 10.7 -0.7	296 9 326 -21	4 F	0118 0706 1316 1944	8.4 1.3 9.6 0.2	256 40 293 6	19 Sa	0218 0813 1427 2053	9.2 0.7 9.9 -0.2	280 21 302 -6
5 M	0048 0645 1256 1911	9.0 1.0 9.4 0.6	274 30 287 18	20 Tu	0106 0705 1320 1945	10.5 -0.5 11.3 -1.3	320 -15 344 -40	5 Th	0139 0729 1338 2006	8.3 1.6 9.3 0.6	253 49 283 18	20 F	0244 0837 1454 2123	9.3 0.8 10.1 -0.2	283 24 308 -6	5 Sa	0200 0751 1402 2031	8.4 1.3 9.5 0.2	256 40 290 6	20 Su	0313 0910 1523 2146	8.9 1.0 9.3 0.3	271 30 283 9
6 Tu	0125 0720 1330 1950	8.7 1.3 9.3 0.8	265 40 283 24	21 W	0203 0800 1416 2044	9.9 0.1 10.8 -0.8	302 3 329 -24	6 F	0223 0814 1424 2054	8.2 1.7 9.2 0.7	250 52 280 21	21 Sa ●	0345 0940 1556 2224	8.9 1.2 9.5 0.3	271 37 290 9	6 Su	0248 0842 1453 2121	8.4 1.3 9.4 0.2	256 40 287 6	21 M ●	0408 1009 1621 2240	8.7 1.3 8.8 0.7	265 40 268 21
7 W	0205 0759 1410 2034	8.4 1.6 9.1 0.9	256 49 277 27	22 Th	0305 0900 1518 2147	9.4 0.6 10.2 -0.2	287 18 311 -6	7 Sa	0312 0905 1517 2147	8.1 1.8 9.1 0.8	247 55 277 24	22 Su	0446 1045 1659 2324	8.7 1.4 9.1 0.6	265 43 277 18	7 M ●	0341 0939 1551 2215	8.6 1.2 9.3 0.2	262 37 283 6	22 Tu	0502 1109 1719 2333	8.6 1.5 8.4 1.1	262 46 256 34
8 Th	0250 0843 1455 2123	8.1 1.8 8.9 1.1	247 55 271 34	23 F ●	0410 1005 1623 2253	9.0 1.1 9.7 0.2	274 34 296 6	8 Su ●	0407 1001 1615 2243	8.1 1.7 9.1 0.7	247 52 277 21	23 M	0546 1150 1802	8.7 1.5 8.8	265 46 268	8 Tu	0437 1039 1652 2311	8.9 1.0 9.3 0.2	271 30 283 6	23 W	0555 1210 1818	8.6 1.4 8.2	262 43 250
9 F ●	0340 0933 1547 2217	7.9 1.9 8.9 1.2	241 58 271 37	24 Sa	0515 1112 1730 2359	8.7 1.4 9.4 0.5	265 43 287 15	9 M	0505 1102 1717 2342	8.4 1.5 9.2 0.5	256 46 280 15	24 Tu	0023 0642 1253 1902	0.9 8.8 1.3 8.7	27 268 40 265	9 W	0534 1143 1756	9.3 0.7 9.3	283 21 283	24 Th	0026 0647 1308 1915	1.3 8.7 1.3 8.0	40 265 40 244
10 Sa	0436 1028 1645 2315	7.8 1.9 8.9 1.1	238 58 271 34	25 Su	0619 1221 1836	8.7 1.4 9.2	265 43 280	10 Tu	0603 1206 1821	8.8 1.0 9.5	268 30 290	25 W	0117 0734 1348 1956	1.0 9.0 1.1 8.7	30 274 34 265	10 Th	0010 0632 1247 1901	0.1 9.8 0.1 9.4	3 299 3 287	25 F	0118 0737 1401 2008	1.4 8.9 1.0 8.1	43 271 30 247
11 Su	0535 1128 1747	8.0 1.8 9.1	244 55 277	26 M	0102 0719 1324 1936	0.6 8.8 1.2 9.2	18 268 37 280	11 W	0041 0701 1309 1923	0.2 9.4 0.4 9.8	6 287 12 299	26 Th	0205 0820 1437 2044	1.0 9.2 0.8 8.7	30 280 24 265	11 F	0109 0729 1349 2003	-0.1 10.4 -0.5 9.6	-3 317 -15 293	26 Sa	0205 0822 1447 2056	1.4 9.1 0.7 8.2	43 277 21 250
12 M	0015 0635 1231 1849	0.8 8.4 1.4 9.5	24 256 43 290	27 Tu	0156 0811 1418 2028	0.6 9.0 1.0 9.3	18 274 30 283	12 Th	0137 0755 1408 2021	-0.2 10.2 -0.3 10.2	-6 311 -9 311	27 F	0247 0900 1520 2127	1.0 9.4 0.5 8.7	30 287 15 265	12 Sa	0205 0823 1447 2100	-0.3 10.9 -1.1 9.9	-9 332 -34 302	27 Su	0248 0903 1529 2140	1.3 9.3 0.4 8.3	40 283 12 253
13 Tu	0114 0732 1332 1949	0.4 9.0 0.7 10.0	12 274 21 305	28 W	0243 0856 1505 2114	0.6 9.3 0.7 9.3	18 283 21 283	13 F	0230 0846 1503 2116	-0.6 10.9 -1.1 10.5	-18 332 -34 320	28 Sa	0325 0938 1559 2208	1.0 9.6 0.3 8.8	30 293 9 268	13 Su	0259 0916 1541 2156	-0.5 11.3 -1.5 10.0	-15 344 -46 305	28 M	0328 0943 1609 2221	1.2 9.5 0.2 8.4	37 290 6 256
14 W	0209 0824 1429 2044	-0.2 9.7 0.0 10.5	-6 296 0 320	29 Th	0324 0935 1547 2156	0.6 9.5 0.4 9.3	18 290 12 283	14 Sa	0321 0936 1556 2210	-0.8 11.4 -1.6 10.6	-24 347 -49 323	29 Su	0401 1014 1635 2247	1.0 9.7 0.1 8.7	30 296 3 265	14 M ●	0352 1007 1634 2250	-0.5 11.5 -1.8 10.1	-15 351 -55 308	29 Tu O	0407 1021 1647 2301	1.1 9.7 0.0 8.5	34 296 0 259
15 Th	0259 0913 1521 2136	-0.7 10.4 -0.8 10.9	-21 317 -24 332	30 F	0401 1012 1625 2235	0.6 9.6 0.3 9.2	18 293 9 280	15 Su ●	0411 1025 1648 2303	-0.9 11.8 -1.9 10.6	-27 360 -58 323	30 M O	0436 1049 1711 2325	1.1 9.8 0.1 8.7	34 299 3 265	15 Tu	0444 1059 1726 2342	-0.5 11.6 -1.8 10.0	-15 354 -55 305	30 W	0445 1059 1724 2339	1.0 9.9 -0.2 8.6	30 302 -6 262
				31 Sa O	0434 1046 1701 2312	0.7 9.7 0.2 9.1	21 296 6 277											31 Th	0524 1137 1802	0.9 10.0 -0.3	27 305 -9		

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Boston, Massachusetts, 2020

Times and Heights of High and Low Waters

January				February				March			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft	h m	ft	h m	ft	h m	ft	h m	ft	h m	ft
1 W	0318 8.7 265 0918 1.5 46 1529 9.0 274 2147 1.0 30	16 Th	0316 10.3 314 0925 -0.2 -6 1536 10.4 317 2153 -0.6 -18	1 Sa	0405 8.8 268 1019 1.4 43 1629 8.3 253 2237 1.5 46	16 Su	0444 10.3 314 1106 -0.1 -3 1722 9.1 277 2324 0.6 18	1 Su	0321 9.2 280 0941 1.1 34 1552 8.4 256 2156 1.5 46	16 M	0419 10.3 314 1044 0.0 0 1703 9.0 274 2301 1.1 34
2 Th	0406 8.6 262 1009 1.7 52 1620 8.7 265 2235 1.3 40	17 F	0412 10.3 314 1025 -0.1 -3 1637 9.8 299 2250 -0.2 -6	2 Su	0453 8.8 268 1113 1.5 46 1723 8.1 247 2328 1.6 49	17 M	0546 10.1 308 1212 0.2 6 1830 8.7 265	2 M	0408 9.1 277 1033 1.2 37 1644 8.1 247 2247 1.7 52	17 Tu	0521 9.9 302 1149 0.5 15 1810 8.6 262
3 F	0454 8.6 262 1103 1.7 52 1714 8.4 256 2325 1.5 46	18 Sa	0510 10.3 314 1127 0.0 0 1741 9.4 287 2348 0.2 6	3 M	0545 8.9 271 1209 1.4 43 1820 8.0 244	18 Tu	0027 1.0 30 0650 9.9 302 1318 0.3 9 1937 8.6 262	3 Tu	0500 9.1 277 1129 1.2 37 1741 8.0 244 2344 1.8 55	18 W	0005 1.4 43 0628 9.6 293 1257 0.7 21 1918 8.5 259
4 Sa	0544 8.7 265 1158 1.7 52 1809 8.2 250	19 Su	0610 10.3 314 1232 0.0 0 1846 9.1 277	4 Tu	0022 1.7 52 0638 9.1 277 1306 1.1 34 1918 8.1 247	19 W	0129 1.1 34 0753 9.9 302 1421 0.3 9 2039 8.6 262	4 W	0557 9.2 280 1228 1.0 30 1841 8.1 247	19 Th	0110 1.5 46 0733 9.5 290 1400 0.7 21 2019 8.6 262
5 Su	0015 1.6 49 0635 8.9 271 1253 1.4 43 1904 8.2 250	20 M	0048 0.5 15 0710 10.3 314 1335 -0.1 -3 1951 9.0 274	5 W	0117 1.5 46 0732 9.5 290 1402 0.6 18 2014 8.3 253	20 Th	0228 1.1 34 0851 9.9 302 1517 0.1 3 2133 8.8 268	5 Th	0043 1.6 49 0656 9.6 293 1328 0.6 18 1941 8.5 259	20 F	0210 1.4 43 0832 9.6 293 1455 0.6 18 2111 8.8 268
6 M	0106 1.5 46 0724 9.2 280 1346 1.0 30 1958 8.3 253	21 Tu	0147 0.6 18 0809 10.4 317 1435 -0.2 -6 2052 9.0 274	6 Th	0211 1.2 37 0826 10.0 305 1455 0.0 0 2108 8.8 268	21 F	0321 0.9 27 0942 10.1 308 1604 0.0 0 2220 9.0 274	6 F	0141 1.1 34 0755 10.1 308 1424 0.0 0 2037 9.0 274	21 Sa	0303 1.2 37 0923 9.7 296 1540 0.5 15 2155 9.1 277
7 Tu	0156 1.4 43 0812 9.6 293 1437 0.6 18 2049 8.5 259	22 W	0243 0.6 18 0904 10.5 320 1530 -0.4 -12 2147 9.1 277	7 F	0304 0.7 21 0918 10.6 323 1545 -0.6 -18 2158 9.3 283	22 Sa	0409 0.7 21 1028 10.1 308 1646 0.0 0 2301 9.2 280	7 Sa	0238 0.5 15 0852 10.7 326 1518 -0.6 -18 2130 9.7 296	22 Su	0349 0.9 27 1007 9.8 299 1619 0.4 12 2233 9.3 283
8 W	0245 1.1 34 0859 10.0 305 1525 0.0 0 2138 8.8 268	23 Th	0336 0.6 18 0955 10.5 320 1620 -0.5 -15 2236 9.1 277	8 Sa	0355 0.1 3 1008 11.1 338 1634 -1.2 -37 2247 9.8 299	23 Su	0452 0.6 18 1108 10.2 311 1724 -0.1 -3 2338 9.3 283	8 Su	0332 -0.2 -6 0946 11.2 341 1608 -1.2 -37 2221 10.4 317	23 M	0430 0.6 18 1047 9.9 302 1655 0.4 12 2308 9.5 290
9 Th	0333 0.8 24 0945 10.5 320 1612 -0.5 -15 2225 9.1 277	24 F	0424 0.5 15 1042 10.6 323 1705 -0.5 -15 2320 9.2 280	9 Su	0445 -0.4 -12 1058 11.5 351 1722 -1.6 -49 2334 10.3 314	24 M	0532 0.4 12 1147 10.1 308 1800 0.0 0	9 M	0425 -0.9 -27 1038 11.7 357 1657 -1.7 -52 2309 11.0 335	24 Tu	0509 0.4 12 1124 9.9 302 1730 0.4 12 2342 9.7 296
10 F	0420 0.4 12 1031 10.9 332 1658 -0.9 -27 2311 9.4 287	25 Sa	0510 0.5 15 1125 10.5 320 1747 -0.4 -12	10 M	0535 -0.9 -27 1148 11.8 360 1809 -1.8 -55	25 Tu	0013 9.4 287 0611 0.4 12 1224 10.0 305 1836 0.1 3	10 Tu	0516 -1.4 -43 1129 11.9 363 1745 -1.9 -58 2357 11.4 347	25 W	0547 0.3 9 1200 9.8 299 1805 0.4 12
11 Sa	0507 0.1 3 1118 11.2 341 1744 -1.3 -40 2357 9.7 296	26 Su	0001 9.2 280 0553 0.5 15 1207 10.4 317 1826 -0.3 -9	11 Tu	0022 10.7 326 0625 -1.1 -34 1238 11.8 360 1857 -1.8 -55	26 W	0048 9.5 290 0650 0.4 12 1301 9.8 299 1912 0.3 9	11 W	0607 -1.8 -55 1220 11.8 360 1833 -1.8 -55	26 Th	0015 9.8 299 0624 0.2 6 1236 9.7 296 1840 0.6 18
12 Su	0554 -0.2 -6 1205 11.4 347 1831 -1.5 -46	27 M	0040 9.2 280 0635 0.6 18 1247 10.1 308 1905 -0.1 -3	12 W	0110 10.9 332 0717 -1.2 -37 1329 11.5 351 1946 -1.6 -49	27 Th	0123 9.4 287 0730 0.5 15 1340 9.5 290 1949 0.5 15	12 Th	0046 11.6 354 0658 -1.8 -55 1312 11.5 351 1922 -1.5 -46	27 F	0050 9.8 299 0702 0.3 9 1314 9.4 287 1917 0.8 24
13 M	0045 10.0 305 0643 -0.3 -9 1254 11.4 347 1919 -1.5 -46	28 Tu	0119 9.2 280 0716 0.7 21 1327 9.9 302 1944 0.2 6	13 Th	0200 11.0 335 0810 -1.1 -34 1422 11.0 335 2036 -1.1 -34	28 F	0200 9.4 287 0810 0.7 21 1421 9.1 277 2028 0.9 27	13 F	0135 11.6 354 0751 -1.6 -49 1405 10.9 332 2012 -0.9 -27	28 Sa	0125 9.8 299 0742 0.4 12 1353 9.2 280 1955 1.1 34
14 Tu	0133 10.1 308 0734 -0.4 -12 1345 11.2 341 2008 -1.3 -40	29 W	0158 9.1 277 0759 0.9 27 1409 9.5 290 2024 0.5 15	14 F	0252 10.9 332 0905 -0.8 -24 1519 10.4 317 2129 -0.6 -18	29 Sa	0239 9.3 283 0854 0.9 27 1504 8.8 268 2110 1.2 37	14 Sa	0226 11.3 344 0845 -1.1 -34 1500 10.3 314 2104 -0.2 -6	29 Su	0203 9.7 296 0824 0.6 18 1435 8.8 268 2037 1.3 40
15 W	0223 10.2 311 0828 -0.4 -12 1439 10.9 332 2100 -1.0 -30	30 Th	0238 9.0 274 0843 1.1 34 1453 9.1 277 2106 0.8 24	15 Sa	0346 10.6 323 1004 -0.4 -12 1618 9.7 296 2225 0.1 3	15 Su	0320 10.8 329 0942 -0.5 -15 1559 9.6 293 2200 0.5 15	15 Su	0320 10.8 329 0942 -0.5 -15 1559 9.6 293 2200 0.5 15	30 M	0245 9.5 290 0910 0.8 24 1522 8.6 262 2123 1.6 49
		31 F	0320 8.9 271 0929 1.3 40 1539 8.7 265 2150 1.2 37							31 Tu	0332 9.4 287 1000 0.9 27 1613 8.3 253 2215 1.7 52

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Boston, Massachusetts, 2020

Times and Heights of High and Low Waters

October				November				December																																																																																		
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height																																																																															
h m	ft	h m	ft	h m	ft	h m	ft	h m	ft	h m	ft																																																																															
1 Th 0435 0.4 12 1049 9.8 299 1652 0.5 15 2306 10.0 305	16 F 0402 -1.1 -34 1014 11.5 351 1629 -1.5 -46 2241 11.5 351	1 Su 0515 0.9 27 1126 10.1 308 1743 0.2 6 2356 9.4 287	16 M 0517 -1.0 -30 1128 12.3 375 1753 -2.1 -64	1 Tu 0524 1.1 34 1134 10.2 311 1757 0.0 0	16 W 0548 -0.5 -15 1201 11.8 360 1828 -1.6 -49	2 F 0511 0.5 15 1124 9.9 302 1730 0.4 12 2343 9.9 302	17 Sa 0451 -1.3 -40 1102 12.0 366 1720 -1.9 -58 2333 11.5 351	2 M 0552 1.0 30 1201 10.1 308 1821 0.2 6	17 Tu 0008 10.8 329 0607 -0.7 -21 1219 12.1 369 1845 -1.8 -55	2 W 0011 9.0 274 0604 1.1 34 1212 10.2 311 1837 0.0 0	17 Th 0044 10.1 308 0638 -0.2 -6 1252 11.4 347 1918 -1.2 -37	3 Sa 0547 0.6 18 1158 9.9 302 1808 0.3 9	18 Su 0540 -1.3 -40 1151 12.2 372 1812 -2.0 -61	3 Tu 0034 9.2 280 0630 1.2 37 1238 10.0 305 1900 0.3 9	18 W 0101 10.5 320 0658 -0.3 -9 1311 11.7 357 1938 -1.4 -43	3 Th 0051 8.9 271 0645 1.2 37 1253 10.1 308 1919 0.0 0	18 F 0135 9.8 299 0730 0.2 6 1434 10.9 332 2008 -0.7 -21	4 Su 0021 9.7 296 0623 0.8 24 1233 9.9 302 1847 0.4 12	19 M 0025 11.3 344 0629 -1.0 -30 1241 12.1 369 1904 -1.8 -55	4 W 0113 9.0 274 0710 1.4 43 1317 9.9 302 1942 0.5 15	19 Th 0156 10.0 305 0751 0.2 6 1406 11.1 338 2032 -0.8 -24	4 F 0133 8.8 268 0728 1.3 40 1335 10.0 305 2003 0.1 3	19 Sa 0227 9.5 290 0822 0.6 18 1446 10.3 314 2059 -0.1 -3	5 M 0059 9.4 287 0700 1.1 34 1309 9.8 299 1927 0.6 18	20 Tu 0119 10.8 329 0720 -0.5 -15 1333 11.8 360 1958 -1.4 -43	5 Th 0155 8.7 265 0752 1.6 49 1359 9.7 296 2026 0.6 18	20 F 0252 9.6 293 0847 0.8 24 1502 10.5 320 2128 -0.1 -3	5 Sa 0218 8.8 268 0814 1.3 40 1422 9.9 302 2050 0.2 6	20 Su 0319 9.2 280 0915 1.1 34 1529 10.9 296 2150 0.4 12	6 Tu 0139 9.1 277 0739 1.3 40 1348 9.7 296 2009 0.8 24	21 W 0214 10.3 314 0814 0.0 0 1428 11.3 344 2054 -0.8 -24	6 F 0241 8.6 262 0838 1.8 55 1445 9.6 293 2115 0.7 21	21 Sa 0351 9.2 280 0945 1.2 37 1602 9.9 302 2226 0.4 12	6 Su 0306 8.8 268 0905 1.3 40 1513 9.8 299 2141 0.2 6	21 M 0412 9.0 274 1011 1.4 43 1625 9.2 280 2242 0.9 27	7 W 0221 8.8 268 0821 1.6 49 1429 9.5 290 2054 1.0 30	22 Th 0313 9.7 296 0910 0.7 21 1526 10.7 326 2154 -0.2 -6	7 Sa 0330 8.5 259 0929 1.9 58 1537 9.5 290 2208 0.8 24	22 Su 0451 9.0 274 1046 1.5 46 1703 9.4 287 2325 0.8 24	7 M 0357 9.0 274 1001 1.2 37 1609 9.7 296 2235 0.2 6	22 Tu 0505 8.9 271 1109 1.6 49 1722 8.7 265 2335 1.2 37	8 Th 0307 8.5 259 0906 1.9 58 1516 9.3 283 2143 1.2 37	23 F 0416 9.3 283 1010 1.2 37 1629 10.1 308 2256 0.4 12	8 Su 0424 8.5 259 1025 1.8 55 1634 9.5 290 2303 0.7 21	23 M 0550 8.9 271 1149 1.6 49 1805 9.1 277	8 Tu 0452 9.3 283 1100 1.0 30 1709 9.7 296 2331 0.2 6	23 W 0558 8.9 271 1207 1.6 49 1820 8.5 259	9 F 0358 8.3 253 0957 2.0 61 1607 9.3 283 2237 1.2 37	24 Sa 0521 9.0 274 1114 1.5 46 1735 9.7 296	9 M 0521 8.8 268 1125 1.5 46 1734 9.6 293	24 Tu 0023 1.0 30 0646 9.0 274 1250 1.5 46 1904 9.0 274	9 W 0548 9.7 296 1201 0.6 18 1810 9.7 296	24 Th 0027 1.4 43 0649 9.0 274 1304 1.4 43 1916 8.4 256	10 Sa 0453 8.3 253 1053 2.1 64 1704 9.3 283 2334 1.1 34	25 Su 0000 0.7 21 0625 8.9 271 1220 1.6 49 1840 9.5 290	10 Tu 0001 0.5 15 0617 9.3 283 1225 1.0 30 1835 9.9 302	25 W 0116 1.2 37 0737 9.2 280 1345 1.3 40 1958 8.9 271	10 Th 0028 0.0 0 0644 10.2 311 1302 0.0 0 1912 9.8 299	25 F 0118 1.5 46 0738 9.1 277 1357 1.2 37 2009 8.4 256	11 Su 0550 8.4 256 1152 1.8 55 1803 9.6 293	26 M 0102 0.8 24 0724 9.0 274 1322 1.4 43 1940 9.5 290	11 W 0057 0.1 3 0713 9.9 302 1325 0.3 9 1935 10.2 311	26 Th 0204 1.2 37 0822 9.4 287 1434 1.0 30 2047 9.0 274	11 F 0124 -0.2 -6 0740 10.8 329 1402 -0.6 -18 2012 10.0 305	26 Sa 0205 1.5 46 0824 9.4 287 1445 0.9 27 2058 8.5 259	12 M 0032 0.8 24 0648 8.8 268 1251 1.4 43 1902 9.9 302	27 Tu 0157 0.8 24 0816 9.3 283 1417 1.2 37 2033 9.5 290	12 Th 0152 -0.3 -9 0806 10.6 323 1422 -0.4 -12 2032 10.6 323	27 F 0247 1.2 37 0904 9.6 293 1519 0.7 21 2131 9.0 274	12 Sa 0219 -0.4 -12 0834 11.4 347 1458 -1.2 -37 2110 10.2 311	27 Su 0251 1.4 43 0907 9.6 293 1530 0.5 15 2144 8.6 262	13 Tu 0128 0.3 9 0743 9.4 287 1349 0.7 21 2000 10.4 317	28 W 0244 0.8 24 0901 9.5 290 1505 0.9 27 2119 9.6 293	13 F 0245 -0.6 -18 0858 11.3 344 1517 -1.2 -37 2128 10.9 332	28 Sa 0328 1.1 34 0942 9.9 302 1600 0.4 12 2213 9.1 277	13 Su 0313 -0.5 -15 0927 11.8 360 1553 -1.6 -49 2206 10.3 314	28 M 0334 1.3 40 0949 9.9 302 1612 0.2 6 2227 8.7 265	14 W 0222 -0.2 -6 0835 10.2 311 1444 -0.1 -3 2055 10.9 332	29 Th 0325 0.8 24 0940 9.7 296 1547 0.6 18 2201 9.6 293	14 Sa 0336 -0.9 -27 0948 11.9 363 1610 -1.7 -52 2222 11.0 335	29 Su 0407 1.1 34 1020 10.0 305 1639 0.2 6 2253 9.1 277	14 M 0405 -0.6 -18 1019 12.0 366 1646 -1.9 -58 2300 10.4 317	29 Tu 0417 1.1 34 1030 10.1 308 1653 0.0 0 2308 8.8 268	15 Th 0313 -0.7 -21 0925 10.9 332 1537 -0.8 -24 2149 11.3 344	30 F 0403 0.8 24 1017 9.9 302 1627 0.4 12 2240 9.6 293	15 Su 0426 -1.0 -30 1038 12.2 372 1702 -2.0 -61 2315 11.0 335	30 M 0445 1.1 34 1057 10.1 308 1718 0.1 3 2332 9.0 274	15 Tu 0457 -0.6 -18 1110 12.0 366 1737 -1.9 -58 2352 10.3 314	30 W 0458 1.0 30 1110 10.3 314 1734 -0.2 -6 2348 9.0 274	31 Th 0540 0.8 24 1151 10.4 317 1815 -0.4 -12

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Nantucket, Massachusetts, 2020

Times and Heights of High and Low Waters

October				November				December							
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height		
h m	ft	cm	h m	ft	cm	h m	ft	cm	h m	ft	cm	h m	ft	cm	
1 Th	0516 1151 1735	0.5 3.2 0.4	15 98 12	16 F	0438 1110 1709 2345	-0.1 3.9 -0.4 3.7	-3 119 -12 113	1 Su	0026 0553 1221 1834	2.8 0.7 3.4 0.2	85 21 104 6	16 M	0025 0550 1230 1843	3.3 -0.1 4.4 -0.7	101 -3 134 -21
2 F	0012 0553 1223 1816	3.2 0.5 3.2 0.4	98 15 98 12	17 Sa	0526 1201 1803	-0.1 4.1 -0.6	-3 125 -18	2 M	0105 0630 1258 1913	2.8 0.8 3.4 0.2	85 24 104 6	17 Tu	0122 0642 1324 1937	3.2 0.0 4.3 -0.6	98 0 131 -18
3 Sa	0050 0629 1256 1857	3.1 0.6 3.3 0.3	94 18 101 9	18 Su	0041 0615 1252 1858	3.6 -0.1 4.2 -0.6	110 -3 128 -18	3 Tu	0145 0707 1337 1954	2.7 0.8 3.4 0.2	82 24 104 6	18 W	0218 0736 1419 2032	3.1 0.1 4.2 -0.5	94 3 128 -15
4 Su	0129 0705 1332 1938	3.0 0.7 3.3 0.3	91 21 101 9	19 M	0137 0706 1346 1954	3.5 0.0 4.3 -0.6	107 0 131 -18	4 W	0227 0746 1419 2036	2.7 0.8 3.4 0.2	82 24 104 6	19 Th	0315 0831 1516 2128	3.1 0.3 4.0 -0.3	94 9 122 -9
5 M	0209 0743 1410 2021	2.9 0.8 3.4 0.3	88 24 104 9	20 Tu	0235 0758 1441 2051	3.3 0.1 4.2 -0.5	101 3 128 -15	5 Th	0312 0827 1504 2121	2.7 0.9 3.4 0.2	82 27 104 6	20 F	0413 0930 1614 2225	3.0 0.4 3.8 -0.1	91 12 116 -3
6 Tu	0252 0821 1451 2105	2.8 0.8 3.4 0.4	85 24 104 12	21 W	0333 0854 1539 2150	3.2 0.3 4.1 -0.3	98 9 125 -9	6 F	0358 0913 1552 2209	2.6 0.9 3.4 0.2	79 27 104 6	21 Sa	0511 1031 1713 2322	3.0 0.6 3.5 0.1	91 18 107 3
7 W	0337 0902 1536 2151	2.8 0.9 3.4 0.4	85 27 104 12	22 Th	0434 0952 1639 2251	3.1 0.4 3.9 -0.1	94 12 119 -3	7 Sa	0447 1004 1643 2300	2.6 0.8 3.4 0.2	79 24 104 6	22 Su	0608 1135 1813	3.0 0.6 3.3	91 18 101
8 Th	0424 0947 1623 2241	2.7 0.9 3.4 0.4	82 27 104 12	23 F	0536 1054 1741 2353	3.0 0.5 3.7 0.1	91 15 113 3	8 Su	0537 1101 1738 2352	2.7 0.8 3.4 0.2	82 24 104 6	23 M	0018 0704 1239 1912	0.2 3.0 0.6 3.1	6 91 18 94
9 F	0514 1036 1714 2333	2.6 0.9 3.4 0.4	79 27 104 12	24 Sa	0638 1159 1844	3.0 0.6 3.6	91 18 110	9 M	0629 1201 1836	2.9 0.6 3.4	88 18 104	24 Tu	0111 0755 1340 2010	0.4 3.1 0.6 3.0	12 94 18 91
10 Sa	0605 1129 1808	2.7 0.9 3.4	82 27 104	25 Su	0053 0739 1303 1946	0.2 3.0 0.6 3.4	6 91 18 104	10 Tu	0045 0720 1302 1934	0.2 3.1 0.4 3.4	6 94 12 104	25 W	0200 0841 1435 2104	0.5 3.1 0.5 2.9	15 94 15 88
11 Su	0026 0657 1226 1904	0.4 2.7 0.8 3.5	12 82 24 107	26 M	0149 0834 1404 2045	0.3 3.1 0.6 3.3	9 94 18 101	11 W	0137 0812 1403 2034	0.1 3.3 0.2 3.4	3 101 6 104	26 Th	0244 0922 1525 2153	0.5 3.2 0.4 2.8	15 98 12 85
12 M	0119 0749 1324 2000	0.3 2.9 0.6 3.6	9 88 18 110	27 Tu	0239 0923 1459 2139	0.4 3.1 0.5 3.2	12 94 15 98	12 Th	0228 0903 1502 2133	0.0 3.6 -0.1 3.4	0 110 -3 104	27 F	0325 1000 1610 2238	0.6 3.3 0.3 2.7	18 101 9 82
13 Tu	0211 0840 1422 2057	0.2 3.1 0.4 3.6	6 94 12 110	28 W	0324 1004 1549 2226	0.5 3.2 0.5 3.1	15 98 15 94	13 F	0319 0954 1559 2231	0.0 3.9 -0.4 3.4	0 119 -12 104	28 Sa	0404 1036 1652 2320	0.7 3.4 0.2 2.7	21 104 6 82
14 W	0301 0930 1518 2153	0.1 3.3 0.1 3.7	3 101 3 113	29 Th	0404 1040 1633 2308	0.5 3.2 0.4 3.0	15 98 12 91	14 Sa	0409 1045 1654 2328	-0.1 4.1 -0.6 3.3	-3 125 -18 101	29 Su	0442 1113 1731	0.7 3.4 0.2	21 104 6
15 Th	0349 1020 1614 2249	0.0 3.6 -0.2 3.7	0 110 -6 113	30 F	0441 1113 1715 2348	0.6 3.3 0.3 2.9	18 101 9 88	15 Su	0459 1137 1748	-0.1 4.3 -0.7	-3 131 -21	30 M	0000 0519 1151 1810	2.6 0.7 3.5 0.1	79 21 107 3
				31 Sa	0518 1147 1755	0.7 3.4 0.2	21 104 6					15 Tu	0011 0529 1213 1827	3.0 0.0 4.3 -0.6	91 0 131 -18
												16 W	0106 0622 1306 1919	3.0 0.1 4.2 -0.6	91 3 128 -18
												17 Th	0200 0715 1400 2011	3.0 0.1 4.0 -0.4	91 3 122 -12
												18 F	0253 0810 1453 2102	3.0 0.3 3.8 -0.3	91 9 116 -9
												19 Sa	0345 0906 1546 2154	2.9 0.4 3.6 -0.1	88 12 110 -3
												20 Su	0437 1004 1640 2245	2.9 0.5 3.3 0.1	88 15 101 3
												21 M	0528 1104 1735 2336	3.0 0.6 3.1 0.3	91 18 94 9
												22 Tu	0618 1205 1830	3.0 0.6 2.9	91 18 88
												23 W	0026 0706 1306 1926	0.4 3.1 0.6 2.7	12 94 18 82
												24 Th	0115 0752 1402 2021	0.5 3.1 0.5 2.6	15 94 15 79
												25 F	0201 0836 1454 2113	0.6 3.2 0.4 2.5	18 98 12 76
												26 Sa	0245 0918 1541 2202	0.7 3.3 0.3 2.5	21 101 9 76
												27 Su	0327 1000 1624 2247	0.7 3.4 0.2 2.5	21 104 6 76
												28 M	0407 1042 1704 2330	0.7 3.4 0.1 2.5	21 104 3 76
												29 Tu	0447 1123 1743	0.7 3.5 0.1	21 107 3
												30 W	0012 0527 1205 1823	2.5 0.6 3.5 0.0	76 18 107 0
												31 Th	0054 0608 1248 1903	2.5 0.6 3.6 -0.1	76 18 110 -3

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Woods Hole, Massachusetts, 2020

Times and Heights of High and Low Waters

October				November				December				
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	
h m	ft	h m	ft	h m	ft	h m	ft	h m	ft	h m	ft	
1 Th 0226 0.4 12 0721 2.2 67 1451 0.3 9 1944 2.1 64		16 F 0144 -0.2 -6 0712 2.9 88 1426 -0.4 -12 1937 2.5 76		1 Su 0150 0.3 9 0818 2.3 70 1519 0.2 6 2036 1.7 52		16 M 0252 -0.2 -6 0834 3.1 94 1617 -0.5 -15 2055 1.9 58		1 Tu 0204 0.2 6 0833 2.3 70 1546 0.0 0 2050 1.5 46		16 W 0329 -0.2 -6 0906 2.8 85 1700 -0.4 -12 2124 1.7 52		
2 F 0214 0.4 12 0804 2.3 70 1504 0.3 9 2025 2.0 61		17 Sa 0231 -0.2 -6 0802 3.1 94 1525 -0.5 -15 2026 2.3 70		2 M 0231 0.3 9 0859 2.3 70 1601 0.2 6 2118 1.6 49		17 Tu 0345 -0.1 -3 0926 3.0 91 1717 -0.4 -12 2147 1.8 55		2 W 0251 0.2 6 0914 2.2 67 1633 0.0 0 2134 1.5 46		17 Th 0424 0.0 0 0958 2.6 79 1755 -0.3 -9 2216 1.6 49		
3 Sa 0236 0.4 12 0846 2.3 70 1535 0.3 9 2107 1.9 58		18 Su 0319 -0.2 -6 0853 3.1 94 1626 -0.4 -12 2117 2.2 67		3 Tu 0313 0.4 12 0940 2.2 67 1650 0.2 6 2202 1.5 46		18 W 0442 0.0 0 1020 2.8 85 1819 -0.3 -9 2241 1.6 49		3 Th 0340 0.3 9 0957 2.2 67 1723 0.1 3 2220 1.4 43		18 F 0526 0.1 3 1049 2.4 73 1853 -0.2 -6 2310 1.5 46		
4 Su 0309 0.4 12 0928 2.2 67 1617 0.3 9 2149 1.8 55		19 M 0409 -0.1 -3 0946 3.0 91 1729 -0.4 -12 2210 2.0 61		4 W 0357 0.5 15 1022 2.1 64 1745 0.3 9 2247 1.4 43		19 Th 0552 0.2 6 1115 2.5 76 1924 -0.2 -6 2336 1.5 46		4 F 0432 0.3 9 1042 2.1 64 1818 0.1 3 2309 1.4 43		19 Sa 0646 0.3 9 1141 2.1 64 1952 0.0 0		
5 M 0346 0.5 15 1011 2.1 64 1707 0.4 12 2233 1.6 49		20 Tu 0505 0.1 3 1041 2.9 88 1837 -0.2 -6 2304 1.8 55		5 Th 0209 0.5 15 1107 2.0 61 1846 0.3 9 2335 1.3 40		20 F 0719 0.4 12 1210 2.2 67 2027 -0.1 -3		5 Sa 0532 0.4 12 1131 2.0 61 1913 0.1 3		20 Su 0003 1.5 46 0806 0.4 12 1232 1.8 55 2048 0.1 3		
6 Tu 0426 0.6 18 1054 2.0 61 1805 0.5 15 2318 1.5 46		21 W 0614 0.3 9 1137 2.6 79 1947 -0.1 -3 2359 1.6 49		6 F 0247 0.6 18 1155 1.9 58 1946 0.3 9		21 Sa 0032 1.4 43 0308 0.9 27 0423 1.0 30 0839 0.4 12 1305* 2.0 61 0129 1.4 43 0347 1.0 30 0513 1.1 34 0948 0.4 12 1401* 1.8 55 0228 1.4 43 0434 1.2 37 0553 1.3 40 1049 0.4 12 1456* 1.6 49 0326 1.6 49 1146 0.4 12 1550 1.5 46 2347 0.3 9		6 Su 0001 1.4 43 0641 0.4 12 1222 2.0 61 2005 0.0 0		21 M 0058 1.4 43 0917 0.4 12 1323 1.6 49 2139 0.2 6		
7 W 0513 0.7 21 1139 1.9 58 1911 0.5 15		22 Th 0740 0.4 12 1235 2.4 73 2053 -0.1 -3		7 Sa 0026 1.3 40 0331 0.6 18 0514 0.8 24 0657 0.6 18 1248* 1.9 58 0121 1.4 43 0422 0.7 21 0549 0.8 24 0806 0.6 18 1346* 1.9 58 0220 1.5 46 0911 0.4 12 1446 1.9 58 2211 0.0 0		22 Su 0421 1.7 52 1236 0.3 9 1639 1.5 46		7 M 0056 1.5 46 0752 0.4 12 1317 1.9 58 2054 0.0 0		22 Tu 0154 1.4 43 1020 0.4 12 1415 1.4 43 2223 0.3 9		
8 Th 0004 1.4 43 0311 0.7 21 1227 1.8 55 2016 0.5 15		23 F 0056 1.5 46 0900 0.4 12 1335 2.1 64 2153 0.0 0		8 Su 0422 0.7 21 0549 0.8 24 0806 0.6 18 1346* 1.9 58 0220 1.5 46 0911 0.4 12 1446 1.9 58 2211 0.0 0		23 M 0421 1.7 52 1236 0.3 9 1639 1.5 46		8 Tu 0153 1.7 52 0902 0.3 9 1415 1.8 55 2139 -0.1 -3		23 W 0252 1.5 46 1117 0.4 12 1508 1.3 40 2242 0.4 12		
9 F 0054 1.3 40 0353 0.7 21 0543 0.9 27 0718 0.8 24 1320* 1.8 55 0149 1.3 40 0444 0.8 24 0619 0.9 27 0823 0.7 21 1420* 1.9 58 0248 1.5 46 0923 0.5 15 1522 2.0 61 2244 0.2 6		24 Sa 0155 1.4 43 0410 1.1 34 0541 1.2 37 1008 0.4 12 1435* 2.0 61 0255 1.5 46 0500 1.2 37 0620 1.3 40 1110 0.4 12 1534* 1.9 58 0354 1.6 49 1207 0.3 9 1627 1.8 55		9 M 0511 2.5 76 1218 -0.2 -6 1735 2.2 67		24 Tu 0421 1.7 52 1236 0.3 9 1639 1.5 46		9 W 0254 1.9 58 1008 0.1 3 1516 1.8 55 2223 -0.1 -3		24 Th 0349 1.6 49 1209 0.4 12 1601 1.2 37 2206 0.4 12		
10 Sa 0149 1.3 40 0444 0.8 24 0619 0.9 27 0823 0.7 21 1420* 1.9 58 0248 1.5 46 0923 0.5 15 1522 2.0 61 2244 0.2 6		25 Su 0255 1.5 46 0500 1.2 37 0620 1.3 40 1110 0.4 12 1534* 1.9 58 0354 1.6 49 1207 0.3 9 1627 1.8 55		10 Tu 0320 1.8 55 1013 0.2 6 1546 2.0 61 2254 -0.1 -3		25 W 0421 1.7 52 1236 0.3 9 1639 1.5 46		10 Th 0353 2.2 67 1113 -0.1 -3 1615 1.8 55 2309 -0.2 -6		25 F 0441 1.7 52 1251 0.3 9 1650 1.2 37 2238 0.3 9		
11 Su 0248 1.5 46 0923 0.5 15 1522 2.0 61 2244 0.2 6		26 M 0025 0.2 6 0446 1.8 55 1256 0.3 9 1713 1.8 55		11 W 0417 2.1 64 1115 0.0 0 1643 2.1 64 2338 -0.2 -6		26 Th 0006 0.4 12 0509 1.9 58 1318 0.3 9 1724 1.5 46 2324 0.4 12 0553 2.0 61 1350 0.3 9 1806 1.5 46 2354 0.3 9		11 F 0450 2.5 76 1218 -0.3 -9 1711 1.8 55 2357 -0.3 -9		26 Sa 0528 1.9 58 1323 0.3 9 1735 1.3 40 2318 0.2 6		
12 M 0347 1.7 52 1021 0.3 9 1619 2.2 67 2328 0.1 3		27 Tu 0025 0.2 6 0446 1.8 55 1256 0.3 9 1713 1.8 55		12 Th 0511 2.5 76 1218 -0.2 -6 1735 2.2 67		27 F 0553 2.0 61 1350 0.3 9 1806 1.5 46 2354 0.3 9		12 Sa 0544 2.8 85 1320 -0.4 -12 1803 1.9 58		27 Su 0611 2.0 61 1346 0.2 6 1818 1.4 43		
13 Tu 0442 2.0 61 1120 0.1 3 1712 2.3 70		28 W 0102 0.3 9 0533 2.0 61 1339 0.3 9 1755 1.8 55		13 F 0024 -0.2 -6 0603 2.8 85 1322 -0.4 -12 1825 2.2 67		28 Sa 0634 2.2 67 1412 0.2 6 1847 1.6 49		13 Su 0049 -0.3 -9 0635 3.0 91 1418 -0.5 -15 1853 1.9 58		28 M 0005 0.2 6 0651 2.1 64 1412 0.1 3 1859 1.4 43		
14 W 0012 -0.1 -3 0534 2.3 70 1222 -0.1 -3 1801 2.4 73		29 Th 0118 0.4 12 0616 2.1 64 1412 0.3 9 1835 1.8 55		14 Sa 0112 -0.3 -9 0653 3.0 91 1422 -0.5 -15 1915 2.2 67		29 Su 0033 0.2 6 0714 2.2 67 1432 0.1 3 1927 1.6 49		14 M 0142 -0.3 -9 0726 3.0 91 1513 -0.6 -18 1943 1.9 58		29 Tu 0055 0.1 3 0731 2.2 67 1447 0.0 0 1941 1.5 46		
15 Th 0058 -0.2 -6 0623 2.7 82 1325 -0.3 -9 1849 2.5 76		30 F 0047 0.4 12 0657 2.3 70 1433 0.3 9 1915 1.8 55		15 Su 0202 -0.3 -9 0743 3.1 94 1520 -0.6 -18 2004 2.1 64		30 M 0118 0.2 6 0754 2.3 70 1505 0.1 3 2008 1.6 49		15 Tu 0236 -0.2 -6 0816 3.0 91 1606 -0.5 -15 2033 1.8 55		30 W 0146 0.0 0 0811 2.3 70 1528 -0.1 -3 2023 1.5 46		
		31 Sa 0114 0.3 9 0738 2.3 70 1447 0.2 6 1955 1.8 55								31 Th 0237 0.0 0 0852 2.3 70 1611 -0.1 -3 2108 1.5 46		

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to mean lower low water which is the chart datum of soundings.
 * See Page 320 for the remaining tides on this day.

Newport, Rhode Island, 2020

Times and Heights of High and Low Waters

January				February				March																
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height											
	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm				
1 W	0454	0.7	21		16 Th	0511	0.2	6		1 Su	0123	3.8	116		1 M	0101	3.6	110						
	1206	3.1	94			1211	3.8	116			0605	0.7	21			0517	0.4	12		0754	0.5	15		
	1726	0.6	18			1741	0.1	3			1244	2.6	79			1717	0.2	6		1328	3.0	91		
2 Th	0035	3.0	91		17 F	0047	3.9	119		2 Su	0108	2.9	88		2 M	0023	2.9	88		17 Tu	0204	3.4	104	
	0552	0.9	27			0628	0.4	12			0716	0.7	21			0613	0.6	18			0918	0.5	15	
	1249	2.9	88			1308	3.5	107			1332	2.5	76			1258	2.4	73			1432	2.9	88	
3 F	0119	3.0	91		18 Sa	0145	3.9	119		3 M	0157	2.9	88		3 Tu	0116	2.9	88		18 W	0311	3.2	98	
	0707	0.9	27			0821	0.5	15			0839	0.7	21			0733	0.6	18			1016	0.5	15	
	1332	2.7	82			1408	3.3	101			1428	2.5	76			1354	2.5	76			1539	2.9	88	
4 Sa	0204	3.0	91		19 Su	0247	3.9	119		4 Tu	0256	3.0	91		4 W	0216	2.9	88		19 Th	0418	3.2	98	
	0826	0.9	27			0943	0.4	12			0946	0.5	15			0906	0.5	15			1100	0.4	12	
	1421	2.7	82			1512	3.2	98			1532	2.6	79			1458	2.6	79			1641	3.0	91	
5 Su	0254	3.1	94		20 M	0352	3.9	119		5 W	0401	3.2	98		5 Th	0326	3.1	94		20 F	0514	3.3	101	
	0930	0.7	21			1043	0.3	9			1039	0.3	9			1009	0.3	9			1131	0.3	9	
	1516	2.7	82			1618	3.2	98			1639	2.8	85			1604	2.8	85			1732	3.2	98	
6 M	0349	3.2	98		21 Tu	0454	4.0	122		6 Th	0501	3.5	107		6 F	0434	3.4	104		21 Sa	0601	3.4	104	
	1021	0.6	18			1132	0.3	9			1125	0.1	3			1058	0.0	0			1155	0.2	6	
	1614	2.8	85			1717	3.3	101			1730	3.1	94			1705	3.2	98			1817	3.4	104	
7 Tu	0442	3.5	107		22 W	0549	4.1	125		7 F	0555	3.8	116		7 Sa	0532	3.8	116		22 Su	0641	3.5	107	
	1105	0.4	12			1216	0.2	6			1210	-0.2	-6			1142	-0.3	-9			1218	0.1	3	
	1707	3.0	91			1809	3.4	104			1821	3.5	107			1759	3.7	113			1856	3.5	107	
8 W	0531	3.7	113		23 Th	0638	4.1	125		8 Sa	0644	4.2	128		8 Su	0624	4.1	125		23 M	0030	0.0	0	
	1148	0.2	6			1253	0.1	3			1254	-0.4	-12			1225	-0.5	-15			0717	3.5	107	
	1756	3.2	98			1857	3.5	107			1910	3.8	116			1849	4.1	125			1246	0.0	0	
9 Th	0617	4.0	122		24 F	0013	0.0	0		9 Su	0040	-0.7	-21		9 M	0028	-0.8	-24		24 Tu	0108	-0.1	-3	
	1232	0.0	0			0723	4.1	125			0733	4.4	134			0713	4.4	134			0751	3.5	107	
	1843	3.5	107			1325	0.1	3			1338	-0.6	-18			1308	-0.7	-21			1317	-0.1	-3	
10 F	0005	-0.3	-9		25 Sa	0056	0.0	0		10 M	0132	-0.8	-24		10 Tu	0122	-0.2	-6		25 W	0146	-0.2	-6	
	0703	4.2	128			0805	4.0	122			1420	-0.7	-21			0820	3.6	110			0824	3.4	104	
	1316	-0.2	-6			1355	0.1	3			2048	4.2	128			1354	-0.1	-3			1351	-0.8	-24	
11 Sa	0053	-0.4	-12		26 Su	0139	0.0	0		11 Tu	0223	-0.8	-24		11 W	0214	-0.9	-27		26 Th	0222	-0.2	-6	
	0750	4.4	134			0846	3.8	116			0910	4.4	134			1432	-0.8	-24			0857	3.3	101	
	1359	-0.3	-9			1425	0.0	0			2139	4.3	131			2118	4.6	140			1421	-0.1	-3	
12 Su	0142	-0.4	-12		27 M	0221	0.0	0		12 W	0313	-0.6	-18		12 Th	0304	-0.8	-24		27 F	0257	-0.1	-3	
	0838	4.4	134			0924	3.6	110			1001	4.2	128			0942	4.1	125			0932	3.1	94	
	1441	-0.3	-9			1457	0.0	0			1540	-0.6	-18			1527	-0.1	-3			1453	-0.1	-3	
13 M	0231	-0.4	-12		28 Tu	0302	0.1	3		13 Th	0404	-0.4	-12		13 F	0353	-0.5	-15		28 Sa	0331	0.1	3	
	0928	4.4	134			1003	3.4	104			1055	3.9	119			1035	3.8	116			1010	2.9	88	
	1522	-0.3	-9			1529	0.1	3			1621	-0.4	-12			1600	0.0	0			1526	0.0	0	
14 Tu	0321	-0.3	-9		29 W	0342	0.2	6		14 F	0459	-0.1	-3		14 Sa	0445	-0.1	-3		29 Su	0405	0.2	6	
	1020	4.2	128			1041	3.1	94			1150	3.6	110			1130	3.5	107			1053	2.8	85	
	1604	-0.2	-6			1603	0.1	3			1707	-0.2	-6			1638	-0.1	-3			1601	0.2	6	
15 W	0412	-0.1	-3		30 Th	0423	0.3	9		15 Sa	0024	3.9	119		15 Su	0002	3.9	119		30 M	0443	0.4	12	
	1114	4.0	122			1120	2.9	88			0612	0.2	6			0551	0.2	6			1141	2.7	82	
	1649	-0.1	-3			1639	0.2	6			1248	3.3	101			1228	3.2	98			1643	0.3	9	
31 F	2349	4.0	122		31 F	0509	0.5	15		16 Su	1803	0.1	3		16 Su	1731	0.2	6		31 Tu	2352	3.1	94	
						1201	2.7	82										0533	0.5		15			
						1719	0.3	9										1234	2.7		82			

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Newport, Rhode Island, 2020

Times and Heights of High and Low Waters

July				August				September																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
1 W	0357	3.5	107		16 Th	0354	2.7	82		1 Sa	0541	3.4	104		16 Su	0508	2.9	88		1 Tu	0040	0.0	0		16 W	0623	3.9	119		17 Th	0037	-0.7	-21		17 Th	0711	4.2	128		18 F	0800	4.5	137		18 F	0800	4.5	137		19 Sa	0201	-0.8	-24		19 Sa	0850	4.6	140		20 Su	0244	-0.7	-21		20 Su	0941	4.5	137		21 M	0326	-0.6	-18		21 M	1036	4.4	134		22 Tu	0412	-0.3	-9		22 Tu	1133	4.1	125		23 W	0000	3.3	101		23 W	0504	0.0	0		24 Th	0610	0.3	9		24 Th	1335	3.6	110		25 F	0203	3.0	91		25 F	0802	0.5	15		26 Sa	0308	3.0	91		26 Sa	0940	0.5	15		27 Su	0412	3.1	94		27 Su	1031	0.4	12		28 M	0508	3.3	101		28 M	1107	0.3	9		29 Tu	0555	3.5	107		29 Tu	1138	0.1	3		30 W	0637	3.6	110		30 W	1211	0.0	0		31 Th	0637	3.6	110		31 Th	1211	0.0	0		1 W	0930	0.2	6		1 W	1200	-0.6	-18		2 Th	0739	0.6	18		2 Th	1252	-0.8	-24		3 F	1633	4.5	137		3 F	1622	3.3	101		4 Sa	1731	4.6	140		4 Sa	1712	3.5	107		5 Su	1731	4.6	140		5 Su	1731	4.6	140		6 M	1845	4.1	125		6 M	1845	4.1	125		7 Tu	0459	3.6	110		7 Tu	0449	2.8	85		8 W	0556	3.7	113		8 W	0539	3.0	91		9 Th	1111	0.1	3		9 Th	1111	0.1	3		10 F	1224	3.3	101		10 F	1224	3.3	101		11 Sa	1633	4.5	137		11 Sa	1622	3.3	101		12 Su	1731	4.6	140		12 Su	1731	4.6	140		13 M	2259	0.3	9		13 M	2248	0.5	15		14 Tu	0205	-0.1	-3		14 Tu	0205	-0.1	-3		15 W	0556	3.7	113		15 W	0539	3.0	91		16 Th	1111	0.1	3		16 Th	1111	0.1	3		17 F	1224	3.3	101		17 F	1224	3.3	101		18 Sa	1633	4.5	137		18 Sa	1622	3.3	101		19 Su	1731	4.6	140		19 Su	1731	4.6	140		20 M	2259	0.3	9		20 M	2248	0.5	15		21 Tu	0459	3.6	110		21 Tu	0449	2.8	85		22 W	0556	3.7	113		22 W	0539	3.0	91		23 Th	1111	0.1	3		23 Th	1111	0.1	3		24 F	1224	3.3	101		24 F	1224	3.3	101		25 Sa	1633	4.5	137		25 Sa	1622	3.3	101		26 Su	1731	4.6	140		26 Su	1731	4.6	140		27 M	2259	0.3	9		27 M	2248	0.5	15		28 Tu	0459	3.6	110		28 Tu	0449	2.8	85		29 W	0556	3.7	113		29 W	0539	3.0	91		30 Th	1111	0.1	3		30 Th	1111	0.1	3		31 F	1224	3.3	101		31 F	1224	3.3	101		1 W	1633	4.5	137		1 W	1622	3.3	101		2 Th	1731	4.6	140		2 Th	1731	4.6	140		3 F	2259	0.3	9		3 F	2248	0.5	15		4 Sa	0459	3.6	110		4 Sa	0449	2.8	85		5 Su	0556	3.7	113		5 Su	0539	3.0	91		6 M	1111	0.1	3		6 M	1111	0.1	3		7 Tu	1224	3.3	101		7 Tu	1224	3.3	101		8 W	1633	4.5	137		8 W	1622	3.3	101		9 Th	1731	4.6	140		9 Th	1731	4.6	140		10 F	2259	0.3	9		10 F	2248	0.5	15		11 Sa	0459	3.6	110		11 Sa	0449	2.8	85		12 Su	0556	3.7	113		12 Su	0539	3.0	91		13 M	1111	0.1	3		13 M	1111	0.1	3		14 Tu	1224	3.3	101		14 Tu	1224	3.3	101		15 W	1633	4.5	137		15 W	1622	3.3	101		16 Th	1731	4.6	140		16 Th	1731	4.6	140		17 F	2259	0.3	9		17 F	2248	0.5	15		18 Sa	0459	3.6	110		18 Sa	0449	2.8	85		19 Su	0556	3.7	113		19 Su	0539	3.0	91		20 M	1111	0.1	3		20 M	1111	0.1	3		21 Tu	1224	3.3	101		21 Tu	1224	3.3	101		22 W	1633	4.5	137		22 W	1622	3.3	101		23 Th	1731	4.6	140		23 Th	1731	4.6	140		24 F	2259	0.3	9		24 F	2248	0.5	15		25 Sa	0459	3.6	110		25 Sa	0449	2.8	85		26 Su	0556	3.7	113		26 Su	0539	3.0	91		27 M	1111	0.1	3		27 M	1111	0.1	3		28 Tu	1224	3.3	101		28 Tu	1224	3.3	101		29 W	1633	4.5	137		29 W	1622	3.3	101		30 Th	1731	4.6	140		30 Th	1731	4.6	140		31 F	2259	0.3	9		31 F	2248	0.5	15	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Newport, Rhode Island, 2020

Times and Heights of High and Low Waters

October				November				December																			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height																
h	m	ft	cm	h	m	ft	cm	h	m	ft	cm																
1 Th O	0024 0715 1247 1933	0.0 3.7 0.0 3.5	0 113 0 107	16 F ●	0003 0649 1238 1912	-0.6 4.7 -0.7 4.3	-18 143 -21 131	1 Su	0053 0752 1343 2013	0.0 3.8 0.1 3.3	0 116 3 101	16 M	0105 0810 1411 2035	-0.5 5.2 -0.3 4.2	-15 158 -9 128	1 Tu	0102 0758 1403 2024	0.1 3.9 0.2 3.3	3 119 6 101	16 W	0136 0845 1447 2109	-0.2 4.8 0.0 4.0	-6 146 0 122				
2 F	0054 0751 1326 2008	-0.1 3.7 -0.1 3.4	-3 113 -3 104	17 Sa	0046 0739 1331 2002	-0.7 4.9 -0.7 4.3	-21 149 -18 131	2 M	0129 0824 1420 2049	0.0 3.8 0.1 3.2	0 116 3 98	17 Tu	0153 0902 1500 2128	-0.4 5.0 -0.1 4.0	-12 152 -3 122	2 W	0141 0834 1439 2105	0.2 3.9 0.3 3.3	6 119 9 101	17 Th	0225 0936 1529 2201	-0.1 4.5 0.1 3.9	-3 137 3 119				
3 Sa	0127 0825 1404 2043	-0.2 3.6 -0.1 3.2	-6 110 -3 98	18 Su	0131 0829 1423 2053	-0.7 5.0 -0.6 4.1	-21 152 -18 125	3 Tu	0205 0858 1455 2128	0.1 3.6 0.3 3.1	3 110 9 94	18 W	0241 0955 1549 2223	-0.1 4.6 0.1 3.8	-3 140 3 116	3 Th	0220 0914 1513 2149	0.2 3.8 0.3 3.2	6 116 9 98	18 F	0313 1028 1610 2255	0.2 4.2 0.3 3.7	6 128 9 113				
4 Su	0202 0857 1441 2118	-0.1 3.5 0.0 3.1	-3 107 0 94	19 M	0216 0920 1513 2146	-0.6 4.8 -0.4 3.9	-18 146 -12 119	4 W	0241 0935 1530 2211	0.2 3.5 0.4 2.9	6 107 12 88	19 Th	0330 1051 1641 2320	0.1 4.3 0.4 3.6	3 131 12 110	4 F	0300 1000 1550 2238	0.3 3.7 0.4 3.2	9 113 12 98	19 Sa	0401 1121 1652 2350	0.4 3.8 0.5 3.5	12 116 15 107				
5 M	0236 0930 1517 2156	-0.1 3.4 0.1 2.9	-3 104 3 88	20 Tu	0302 1015 1605 2242	-0.4 4.6 -0.1 3.7	-12 140 -3 113	5 Th	0319 1019 1607 2300	0.3 3.4 0.5 2.9	9 104 15 88	20 F	0421 1149 1752	0.5 3.9 0.6	15 119 18	5 Sa	0342 1050 1631 2330	0.4 3.6 0.5 3.2	12 110 15 98	20 Su	0453 1213 1741	0.7 3.5 0.7	21 107 21				
6 Tu	0310 1006 1553 2238	0.1 3.2 0.3 2.7	3 98 9 82	21 W	0349 1113 1705 2341	-0.1 4.2 0.3 3.5	-3 128 9 107	6 F	0400 1109 1651 2352	0.4 3.3 0.7 2.9	12 101 21 88	21 Sa	0019 0522 1247 1931	3.5 0.8 3.6 0.8	107 24 110 24	6 Su	0431 1144 1721	0.5 3.6 0.5	15 110 15	21 M	0043 0557 1304 1837	3.4 0.9 3.2 0.8	104 27 98 24				
7 W	0346 1047 1632 2325	0.2 3.1 0.5 2.6	6 94 15 79	22 Th	0441 1213 1858	0.3 3.9 0.5	9 119 15	7 Sa	0449 1205 1750	0.6 3.3 0.7	18 101 21	22 Su	0117 0709 1344 2031	3.4 1.0 3.4 0.8	104 30 104 24	7 M	0025 0531 1240 1824	3.3 0.6 3.6 0.5	101 18 110 15	22 Tu	0136 0730 1355 1934	3.3 1.0 3.0 0.8	101 30 91 24				
8 Th	0426 1135 1720	0.3 3.0 0.6	9 91 18	23 F	0042 0548 1314 2025	3.3 0.6 3.6 0.6	101 18 110 18	8 Su	0047 0551 1302 1911	3.0 0.6 3.3 0.7	91 18 101 21	23 M	0215 0854 1441 2110	3.3 1.0 3.2 0.8	101 30 98 24	8 Tu	0120 0646 1338 1932	3.5 0.6 3.5 0.4	107 18 107 12	23 W	0229 0850 1447 2024	3.2 1.0 2.9 0.7	98 30 88 21				
9 F	0016 0515 1229 1830	2.5 0.5 3.0 0.7	76 91 15 21	24 Sa	0143 0814 1416 2124	3.2 0.8 3.4 0.6	98 104 104 18	9 M	0144 0709 1402 2025	3.1 0.6 3.4 0.5	94 18 104 15	24 Tu	0314 0944 1538 2138	3.4 0.9 3.2 0.7	104 27 98 21	9 W	0218 0812 1439 2034	3.8 0.5 3.6 0.3	116 15 110 9	24 Th	0325 0943 1543 2110	3.2 0.8 2.8 0.6	98 24 85 18				
10 Sa	0110 0619 1326 2009	2.6 0.5 3.0 0.6	79 15 91 18	25 Su	0246 0932 1519 2206	3.2 0.7 3.3 0.5	98 21 101 15	10 Tu	0243 0831 1505 2119	3.4 0.4 3.6 0.2	104 12 110 6	25 W	0410 1022 1630 2205	3.5 0.7 3.2 0.5	107 21 98 15	10 Th	0319 0929 1544 2129	4.0 0.3 3.6 0.1	122 9 110 3	25 F	0418 1027 1635 2154	3.3 0.7 2.9 0.5	101 21 88 15				
11 Su	0208 0737 1428 2115	2.7 0.5 3.2 0.4	82 15 98 12	26 M	0348 1018 1617 2235	3.3 0.6 3.3 0.5	101 18 101 15	11 W	0345 0941 1609 2205	3.8 0.2 3.8 0.0	116 6 116 0	26 Th	0458 1056 1716 2235	3.6 0.6 3.2 0.4	110 18 98 12	11 F	0421 1031 1646 2219	4.4 0.1 3.8 -0.1	134 3 116 -3	26 Sa	0504 1107 1721 2236	3.4 0.5 3.0 0.3	104 15 91 9				
12 M	0310 0853 1534 2201	3.0 0.3 3.4 0.1	91 9 104 3	27 Tu	0443 1051 1707 2255	3.4 0.5 3.4 0.4	104 15 104 12	12 Th	0443 1040 1707 2249	4.3 -0.1 4.0 -0.3	131 -3 122 -9	27 F	0540 1130 1756 2309	3.7 0.5 3.3 0.3	113 15 101 9	12 Sa	0518 1126 1743 2308	4.7 -0.1 3.9 -0.3	143 -3 119 -9	27 Su	0545 1147 1802 2317	3.6 0.4 3.1 0.2	110 12 94 6				
13 Tu	0411 0957 1636 2242	3.4 0.0 3.7 -0.2	104 0 113 -6	28 W	0530 1120 1750 2317	3.6 0.4 3.4 0.2	110 12 104 6	13 F	0537 1133 1801 2332	4.7 -0.3 4.2 -0.5	143 -9 128 -15	28 Sa	0616 1207 1833 2346	3.8 0.3 3.3 0.2	116 9 101 6	13 Su	0612 1218 1836 2356	5.0 -0.2 4.1 -0.3	152 -6 125 -9	28 M	0622 1228 1842 2359	3.7 0.3 3.2 0.1	113 9 98 3				
14 W	0508 1053 1731 2322	3.9 -0.3 4.0 -0.4	119 -9 122 -12	29 Th	0610 1152 1828 2345	3.7 0.3 3.4 0.1	113 9 104 3	14 Sa	0629 1226 1853	5.0 -0.4 4.3	152 -12 131	29 Su	0650 1246 1909	3.9 0.2 3.4	119 6 104	14 M	0704 1311 1928	5.1 -0.2 4.1	155 -6 125	29 Tu	0658 1308 1921	3.8 0.2 3.3	116 6 101				
15 Th	0559 1145 1822	4.3 -0.6 4.2	131 -18 128	30 F	0646 1227 1903	3.8 0.1 3.4	116 3 104	15 Su	0018 0719 1318 1944	-0.5 5.2 -0.4 4.3	-15 158 -12 131	30 M	0023 0723 1325 1946	0.1 3.9 0.2 3.4	3 119 6 104	15 Tu	0045 0755 1401 2018	-0.3 5.0 -0.1 4.1	-9 152 -3 125	30 W	0040 0735 1348 2001	0.0 3.9 0.1 3.4	0 119 3 104				
				31 Sa	0018 0720 1305 1938	0.0 3.9 0.1 3.4	0 119 3 104																	31 Th	0122 0815 1424 2044	0.0 3.9 0.1 3.4	0 119 3 104

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Montauk, Fort Pond Bay, New York, 2020

Times and Heights of High and Low Waters

October				November				December			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft	h m	ft	h m	ft	h m	ft	h m	ft	h m	ft
1 Th	0226 0.3 0816 2.6 1455 0.3 2035 2.4	16 F	0202 -0.2 0751 3.3 1437 -0.4 2014 2.8	1 Su	0253 0.4 0907 2.7 1547 0.2 2129 2.0	16 M	0309 -0.3 0909 3.4 1605 -0.6 2135 2.3	1 Tu	0301 0.2 0921 2.5 1604 -0.1 2146 1.7	16 W	0344 -0.4 0945 2.9 1639 -0.6 2211 2.0
2 F	0258 0.4 0856 2.7 1533 0.3 2115 2.4	17 Sa	0247 -0.2 0839 3.4 1529 -0.4 2104 2.7	2 M	0327 0.4 0947 2.6 1628 0.2 2212 2.0	17 Tu	0400 -0.2 1003 3.2 1659 -0.4 2230 2.2	2 W	0341 0.3 1001 2.4 1649 -0.1 2231 1.7	17 Th	0438 -0.2 1038 2.7 1731 -0.4 2305 1.9
3 Sa	0330 0.4 0937 2.7 1612 0.3 2158 2.3	18 Su	0333 -0.2 0930 3.5 1622 -0.4 2156 2.5	3 Tu	0403 0.5 1027 2.5 1713 0.3 2257 1.9	18 W	0456 -0.1 1058 3.0 1756 -0.2 2326 2.0	3 Th	0424 0.3 1042 2.3 1737 0.0 2317 1.7	18 F	0536 -0.1 1131 2.5 1825 -0.3
4 Su	0403 0.5 1018 2.7 1654 0.4 2241 2.2	19 M	0422 -0.1 1023 3.4 1718 -0.3 2249 2.4	4 W	0443 0.6 1108 2.4 1804 0.3 2342 1.8	19 Th	0557 0.1 1154 2.7 1856 -0.1	4 F	0514 0.4 1124 2.3 1829 0.0	19 Sa	0001 1.9 0638 0.1 1224 2.2 1920 -0.1
5 M	0437 0.6 1100 2.6 1741 0.5 2324 2.0	20 Tu	0517 0.1 1118 3.2 1818 -0.1 2345 2.2	5 Th	0531 0.7 1150 2.3 1858 0.4	20 F	0024 2.0 0704 0.3 1252 2.5 1956 0.1	5 Sa	0005 1.6 0613 0.5 1208 2.2 1922 0.0	20 Su	0057 1.8 0743 0.2 1317 1.9 2013 0.0
6 Tu	0515 0.7 1142 2.5 1833 0.6	21 W	0618 0.3 1216 3.0 1921 0.1	6 F	0030 1.7 0633 0.8 1236 2.3 1954 0.4	21 Sa	0126 1.9 0813 0.4 1353 2.2 2055 0.1	6 Su	0055 1.6 0719 0.5 1258 2.1 2015 0.0	21 M	0156 1.8 0846 0.3 1413 1.7 2103 0.1
7 W	0010 1.9 0601 0.9 1226 2.4 1929 0.6	22 Th	0044 2.1 0726 0.4 1317 2.7 2025 0.2	7 Sa	0123 1.7 0741 0.8 1330 2.2 2048 0.3	22 Su	0232 1.9 0920 0.5 1456 2.0 2148 0.2	7 M	0149 1.7 0824 0.4 1356 2.0 2105 0.0	22 Tu	0257 1.8 0946 0.3 1511 1.5 2149 0.2
8 Th	0058 1.8 0701 1.0 1314 2.3 2025 0.6	23 F	0149 2.0 0836 0.5 1424 2.5 2127 0.3	8 Su	0222 1.7 0845 0.7 1433 2.2 2139 0.2	23 M	0340 1.9 1022 0.5 1557 1.9 2237 0.3	8 Tu	0248 1.9 0926 0.2 1458 1.9 2153 -0.1	23 W	0356 1.9 1042 0.3 1609 1.4 2232 0.2
9 F	0152 1.7 0806 1.0 1413 2.3 2120 0.6	24 Sa	0300 1.9 0944 0.6 1533 2.3 2224 0.3	9 M	0322 1.9 0946 0.6 1536 2.2 2227 0.1	24 Tu	0439 2.0 1118 0.4 1652 1.8 2320 0.3	9 W	0345 2.1 1026 0.0 1601 1.9 2242 -0.2	24 Th	0449 2.0 1132 0.2 1701 1.4 2313 0.2
10 Sa	0254 1.8 0908 0.9 1517 2.3 2211 0.5	25 Su	0411 2.0 1047 0.6 1637 2.2 2316 0.4	10 Tu	0417 2.1 1044 0.3 1634 2.3 2314 0.0	25 W	0526 2.2 1208 0.3 1738 1.8 2358 0.3	10 Th	0440 2.4 1124 -0.2 1659 1.9 2330 -0.3	25 F	0536 2.1 1218 0.1 1748 1.4 2354 0.2
11 Su	0354 1.9 1006 0.8 1616 2.4 2300 0.4	26 M	0510 2.1 1144 0.5 1728 2.2	11 W	0507 2.4 1141 0.1 1726 2.3	26 Th	0607 2.3 1250 0.2 1820 1.8	11 F	0531 2.7 1221 -0.4 1752 1.9	26 Sa	0618 2.1 1259 0.0 1832 1.5
12 M	0447 2.1 1103 0.5 1708 2.5 2347 0.2	27 Tu	0001 0.4 0555 2.3 1234 0.5 1811 2.2	12 Th	0000 -0.1 0554 2.8 1236 -0.2 1815 2.4	27 F	0034 0.3 0645 2.4 1329 0.2 1900 1.8	12 Sa	0020 -0.3 0621 2.9 1315 -0.6 1843 2.0	27 Su	0035 0.2 0659 2.2 1339 -0.1 1913 1.5
13 Tu	0535 2.4 1158 0.3 1755 2.7	28 W	0040 0.4 0635 2.4 1316 0.4 1850 2.2	13 F	0046 -0.2 0641 3.1 1329 -0.4 1903 2.4	28 Sa	0110 0.3 0723 2.5 1406 0.1 1940 1.8	13 Su	0111 -0.4 0711 3.1 1407 -0.7 1933 2.0	28 M	0117 0.1 0739 2.3 1419 -0.2 1955 1.6
14 W	0033 0.0 0619 2.7 1252 0.0 1841 2.8	29 Th	0115 0.4 0712 2.5 1355 0.3 1928 2.2	14 Sa	0133 -0.3 0728 3.3 1422 -0.6 1952 2.4	29 Su	0146 0.2 0802 2.5 1444 0.0 2020 1.8	14 M	0201 -0.5 0801 3.1 1458 -0.7 2024 2.0	29 Tu	0158 0.0 0818 2.3 1459 -0.3 2038 1.6
15 Th	0117 -0.1 0704 3.0 1345 -0.2 1927 2.8	30 F	0148 0.4 0749 2.6 1431 0.2 2007 2.1	15 Su	0220 -0.3 0818 3.4 1513 -0.6 2043 2.3	30 M	0223 0.2 0841 2.5 1523 -0.1 2103 1.8	15 Tu	0252 -0.4 0853 3.1 1548 -0.7 2117 2.0	30 W	0241 0.0 0858 2.3 1541 -0.3 2121 1.6
		31 Sa	0220 0.4 0827 2.7 1508 0.2 2047 2.1							31 Th	0324 0.0 0938 2.3 1624 -0.3 2206 1.6

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

New London, Connecticut, 2020

Times and Heights of High and Low Waters

April				May				June			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
<small>h m ft cm</small>	<small>ft cm</small>	<small>h m ft cm</small>	<small>ft cm</small>	<small>h m ft cm</small>	<small>ft cm</small>	<small>h m ft cm</small>	<small>ft cm</small>	<small>h m ft cm</small>	<small>ft cm</small>	<small>h m ft cm</small>	<small>ft cm</small>
1 W 0247 2.6 79 0949 0.3 9 1536 2.1 64 2147 0.6 18		16 Th 0428 2.6 79 1100 0.4 12 1704 2.4 73 2328 0.5 15		1 F 0324 2.8 85 1015 0.2 6 1609 2.5 76 2230 0.5 15		16 Sa 0448 2.4 73 1110 0.5 15 1720 2.7 82 2352 0.6 18		1 M 0502 2.7 82 1130 0.1 3 1734 3.3 101		16 Tu 0003 0.6 18 0548 2.3 70 1150 0.7 21 1813 3.0 91	
2 Th 0358 2.6 79 1045 0.2 6 1638 2.2 67 2249 0.5 15		17 F 0528 2.5 76 1153 0.4 12 1755 2.5 76		2 Sa 0430 2.8 85 1108 0.1 3 1705 2.7 82 2331 0.2 6		17 Su 0540 2.4 73 1155 0.6 18 1805 2.8 85		2 Tu 0014 0.0 0 0558 2.7 82 1222 0.0 0 1824 3.5 107		17 W 0050 0.5 15 0634 2.3 70 1234 0.7 21 1854 3.1 94	
3 F 0501 2.8 85 1139 0.1 3 1732 2.4 73 2349 0.2 6		18 Sa 0024 0.5 15 0618 2.5 76 1240 0.4 12 1839 2.7 82		3 Su 0529 2.9 88 1200 0.0 0 1756 3.1 94		18 M 0041 0.5 15 0626 2.4 73 1237 0.6 18 1847 3.0 91		3 W 0111 -0.2 -6 0650 2.7 82 1314 0.0 0 1913 3.7 113		18 Th 0134 0.4 12 0718 2.3 70 1318 0.7 21 1933 3.1 94	
4 Sa 0557 2.9 88 1231 -0.1 -3 1821 2.7 82		19 Su 0112 0.4 12 0700 2.5 76 1321 0.4 12 1918 2.8 85		4 M 0030 0.0 0 0621 2.9 88 1250 -0.1 -3 1845 3.4 104		19 Tu 0125 0.4 12 0708 2.4 73 1317 0.6 18 1926 3.1 94		4 Th 0205 -0.3 -9 0740 2.7 82 1406 0.0 0 2002 3.8 116		19 F 0215 0.2 6 0800 2.4 73 1400 0.6 18 2012 3.2 98	
5 Su 0047 0.0 0 0647 3.0 91 1321 -0.2 -6 1908 3.0 91		20 M 0155 0.3 9 0740 2.5 76 1358 0.4 12 1956 2.9 88		5 Tu 0126 -0.2 -6 0711 3.0 91 1340 -0.2 -6 1933 3.6 110		20 W 0206 0.3 9 0749 2.4 73 1355 0.5 15 2004 3.1 94		5 F 0256 -0.4 -12 0831 2.7 82 1456 0.0 0 2051 3.8 116		20 Sa 0256 0.1 3 0843 2.4 73 1443 0.6 18 2051 3.2 98	
6 M 0142 -0.3 -9 0735 3.1 94 1409 -0.3 -9 1955 3.3 101		21 Tu 0234 0.2 6 0819 2.5 76 1433 0.4 12 2034 3.0 91		6 W 0220 -0.4 -12 0801 2.9 88 1428 -0.2 -6 2021 3.8 116		21 Th 0244 0.2 6 0830 2.4 73 1433 0.5 15 2041 3.2 98		6 Sa 0345 -0.4 -12 0923 2.7 82 1546 0.1 3 2142 3.7 113		21 Su 0337 0.0 0 0926 2.4 73 1525 0.5 15 ● 2131 3.3 101	
7 Tu 0235 -0.5 -15 0823 3.1 94 1455 -0.4 -12 2043 3.5 107		22 W 0311 0.1 3 0858 2.5 76 1507 0.4 12 ● 2112 3.1 94		7 Th 0311 -0.5 -15 0851 2.9 88 1517 -0.2 -6 ● 2111 3.8 116		22 F 0323 0.1 3 0911 2.4 73 1510 0.5 15 ● 2119 3.2 98		7 Su 0434 -0.3 -9 1016 2.7 82 1637 0.2 6 2234 3.5 107		22 M 0420 0.0 0 1010 2.5 76 1610 0.5 15 2214 3.3 101	
8 W 0327 -0.6 -18 0912 3.1 94 1541 -0.4 -12 2133 3.6 110		23 Th 0348 0.1 3 0938 2.5 76 1541 0.4 12 2149 3.1 94		8 F 0402 -0.5 -15 0942 2.8 85 1606 -0.1 -3 2202 3.7 113		23 Sa 0402 0.0 0 0953 2.4 73 1549 0.6 18 2157 3.2 98		8 M 0523 -0.2 -6 1109 2.7 82 1730 0.4 12 2326 3.3 101		23 Tu 0505 -0.1 -3 1055 2.5 76 1658 0.5 15 2259 3.3 101	
9 Th 0418 -0.6 -18 1003 3.0 91 1629 -0.3 -9 2224 3.6 110		24 F 0426 0.0 0 1018 2.5 76 1617 0.5 15 2226 3.0 91		9 Sa 0453 -0.4 -12 1035 2.8 85 1657 0.1 3 2254 3.6 110		24 Su 0443 0.0 0 1036 2.4 73 1630 0.6 18 2236 3.1 94		9 Tu 0614 0.0 0 1202 2.6 79 1826 0.5 15		24 W 0552 0.0 0 1142 2.6 79 1751 0.5 15 2347 3.2 98	
10 F 0511 -0.6 -18 1055 2.8 85 1719 -0.2 -6 2317 3.5 107		25 Sa 0506 0.1 3 1100 2.4 73 1654 0.5 15 2303 3.0 91		10 Su 0545 -0.3 -9 1129 2.7 82 1751 0.3 9 2348 3.4 104		25 M 0528 0.0 0 1120 2.4 73 1715 0.6 18 2318 3.1 94		10 W 0018 3.1 94 0706 0.2 6 1255 2.6 79 1925 0.6 18		25 Th 0642 0.0 0 1231 2.7 82 1850 0.5 15	
11 Sa 0606 -0.4 -12 1149 2.7 82 1814 0.1 3		26 Su 0550 0.1 3 1142 2.3 70 1736 0.6 18 2340 2.9 88		11 M 0640 -0.1 -3 1225 2.6 79 1850 0.4 12		26 Tu 0616 0.1 3 1204 2.4 73 1807 0.7 21		11 Th 0112 2.8 85 0757 0.3 9 1350 2.6 79 2025 0.7 21		26 F 0038 3.1 94 0733 0.0 0 1323 2.8 85 1952 0.4 12	
12 Su 0011 3.3 101 0704 -0.2 -6 1245 2.5 76 1913 0.3 9		27 M 0638 0.2 6 1225 2.3 70 1825 0.7 21		12 Tu 0044 3.1 94 0736 0.1 3 1322 2.5 76 1953 0.6 18		27 W 0003 3.1 94 0707 0.1 3 1252 2.4 73 1906 0.7 21		12 F 0207 2.6 79 0848 0.4 12 1448 2.6 79 2123 0.7 21		27 Sa 0133 2.9 88 0826 0.1 3 1419 2.9 88 2055 0.4 12	
13 M 0108 3.1 94 0804 0.0 0 1345 2.4 73 2017 0.4 12		28 Tu 0022 2.9 88 0731 0.2 6 1312 2.2 67 1922 0.8 24		13 W 0142 2.9 88 0833 0.3 9 1423 2.5 76 2057 0.7 21		28 Th 0054 3.0 91 0800 0.1 3 1345 2.5 76 2008 0.6 18		13 Sa 0305 2.5 76 0936 0.5 15 1545 2.7 82 ● 2219 0.7 21		28 Su 0233 2.8 85 0918 0.1 3 1518 3.1 94 ● 2157 0.3 9	
14 Tu 0211 2.9 88 0904 0.2 6 1451 2.3 70 ● 2123 0.5 15		29 W 0112 2.8 85 0826 0.3 9 1406 2.2 67 2025 0.7 21		14 Th 0245 2.7 82 0928 0.4 12 1526 2.5 76 ● 2158 0.7 21		29 F 0152 2.9 88 0853 0.2 6 1443 2.6 79 ● 2111 0.5 15		14 Su 0403 2.3 70 1022 0.6 18 1640 2.8 85 2313 0.7 21		29 M 0337 2.6 79 1011 0.1 3 1618 3.2 98 2258 0.2 6	
15 W 0319 2.7 82 1004 0.3 9 1601 2.3 70 2227 0.6 18		30 Th 0214 2.8 85 0921 0.2 6 1507 2.3 70 ● 2128 0.6 18		15 F 0348 2.5 76 1021 0.5 15 1627 2.6 79 2257 0.7 21		30 Sa 0256 2.8 85 0946 0.1 3 1543 2.8 85 2213 0.4 12		15 M 0458 2.3 70 1106 0.7 21 1729 2.9 88		30 Tu 0440 2.5 76 1105 0.2 6 1714 3.4 104 2358 0.1 3	
						31 Su 0401 2.8 85 1038 0.1 3 1640 3.0 91 2314 0.2 6					

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

New London, Connecticut, 2020

Times and Heights of High and Low Waters

July				August				September															
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height										
	h	m		ft	cm		h	m		ft	cm		h	m	ft	cm	h	m	ft	cm			
1 W	0539	2.5	76	16 Th	0011	0.5	15	1 Sa	0134	0.0	0	16 Su	0112	0.3	9	1 Tu	0244	0.2	6	16 W	0212	-0.1	-3
	1200	0.2	6		0601	2.2	67		0712	2.5	76		0700	2.4	73		0826	2.8	85		0756	3.1	94
	1807	3.5	107		1154	0.8	24		1336	0.3	9		1304	0.6	18		1458	0.3	9		1425	0.0	0
2 Th	0056	0.0	0	17 F	0059	0.4	12	2 Su	0223	0.0	0	17 M	0158	0.1	3	2 W	0322	0.2	6	17 Th	0256	-0.2	-6
	0633	2.5	76		0647	2.3	70		0800	2.6	79		0743	2.6	79		0907	2.9	88		0842	3.3	101
	1255	0.2	6		1243	0.7	21		1427	0.3	9		1354	0.4	12		1540	0.3	9		1516	-0.2	-6
3 F	0150	-0.1	-3	18 Sa	0144	0.3	9	3 M	0308	0.0	0	18 Tu	0243	-0.1	-3	3 Th	0359	0.3	9	18 F	0341	-0.2	-6
	0724	2.6	79		0730	2.3	70		0846	2.7	82		0826	2.8	85		0950	3.0	91		0929	3.5	107
	1349	0.2	6		1331	0.6	18		1515	0.3	9		1444	0.2	6		1621	0.3	9		1607	-0.3	-9
4 Sa	0240	-0.2	-6	19 Su	0228	0.1	3	4 Tu	0350	0.0	0	19 W	0327	-0.2	-6	4 F	0434	0.3	9	19 Sa	0427	-0.2	-6
	0814	2.6	79		0813	2.4	73		0932	2.7	82		0911	2.9	88		1032	3.0	91		1020	3.6	110
	1440	0.2	6		1417	0.5	15		1600	0.3	9		1533	0.1	3		1703	0.4	12		1701	-0.3	-9
5 Su	0328	-0.2	-6	20 M	0311	0.0	0	5 W	0431	0.1	3	20 Th	0411	-0.2	-6	5 Sa	0510	0.4	12	20 Su	0515	-0.1	-3
	0905	2.6	79		0856	2.5	76		1019	2.8	85		0958	3.1	94		1115	3.0	91		1112	3.6	110
	1530	0.2	6		1504	0.4	12		1645	0.4	12		1624	0.0	0		1746	0.5	15		1758	-0.2	-6
6 M	0414	-0.1	-3	21 Tu	0355	-0.1	-3	6 Th	0511	0.2	6	21 F	0456	-0.2	-6	6 Su	0547	0.6	18	21 M	0608	0.1	3
	0955	2.7	82		0941	2.6	79		1105	2.9	88		1048	3.2	98		1159	3.0	91		1207	3.6	110
	1619	0.3	9		1551	0.3	9		1731	0.5	15		1718	0.0	0		1833	0.6	18		1858	0.0	0
7 Tu	0459	0.0	0	22 W	0439	-0.2	-6	7 F	0551	0.3	9	22 Sa	0544	-0.1	-3	7 M	0619	2.5	76	22 Tu	0635	2.7	82
	1045	2.7	82		1027	2.7	82		1151	2.9	88		1139	3.3	101		1243	2.9	88		1306	3.4	104
	1708	0.4	12		1641	0.2	6		1819	0.5	15		1816	0.0	0		1924	0.6	18		2000	0.1	3
8 W	0544	0.1	3	23 Th	0526	-0.2	-6	8 Sa	0632	2.7	82	23 Su	0636	0.0	0	8 Tu	0713	2.4	73	23 W	0736	2.5	76
	1135	2.7	82		1116	2.9	88		0632	0.5	15		1233	3.4	104		0713	0.8	24		0809	0.4	12
	1759	0.5	15		1735	0.2	6		1910	0.6	18		1917	0.1	3		1331	2.8	85		1410	3.3	101
9 Th	0630	0.2	6	24 F	0614	-0.1	-3	9 Su	0714	0.6	18	24 M	0654	2.8	85	9 W	0757	2.2	67	24 Th	0813	2.4	73
	1225	2.7	82		1206	3.0	91		0714	0.6	18		0731	0.1	3		0804	0.9	27		0913	0.5	15
	1853	0.6	18		1834	0.2	6		2003	0.7	21		1325	2.9	88		1330	3.4	104		1424	2.8	85	1519	3.1	94
10 F	0039	2.8	85	25 Sa	0019	3.1	94	10 M	0141	2.4	73	25 Tu	0154	2.6	79	10 Th	0257	2.2	67	25 F	0357	2.4	73
	0716	0.4	12		0705	0.0	0		0759	0.7	21		0829	0.3	9		1523	2.7	82		1018	0.5	15
	1315	2.7	82		1258	3.1	94		1416	2.8	85		1432	3.3	101		1432	3.3	101		1629	3.0	91
11 Sa	0129	2.6	79	26 Su	0113	2.9	88	11 Tu	0236	2.2	67	26 W	0300	2.4	73	11 F	0359	2.2	67	26 Sa	0504	2.5	76
	0802	0.5	15		0758	0.1	3		0847	0.8	24		0930	0.4	12		0955	0.9	27		1120	0.5	15
	1407	2.8	85		1355	3.2	98		1511	2.8	85		1539	3.3	101		1623	2.8	85		1730	3.0	91
12 Su	0221	2.4	73	27 M	0212	2.7	82	12 W	0335	2.2	67	27 Th	0410	2.4	73	12 Sa	0456	2.3	70	27 Su	0001	0.3	9
	0848	0.6	18		0852	0.1	3		0936	0.9	27		1031	0.4	12		1051	0.8	24		0559	2.6	79
	1501	2.8	85		1455	3.2	98		1608	2.8	85		1645	3.2	98		1717	2.9	88		1219	0.5	15
13 M	0318	2.3	70	28 Tu	0317	2.5	76	13 Th	0434	2.2	67	28 F	0516	2.4	73	13 Su	0546	2.4	73	28 M	0051	0.3	9
	0933	0.7	21		0948	0.2	6		1027	0.9	27		1132	0.5	15		1147	0.7	21		0644	2.7	82
	1557	2.8	85		1557	3.3	101		1701	2.9	88		1744	3.2	98		1805	3.1	94		1311	0.4	12
14 Tu	0416	2.2	67	29 W	0423	2.4	73	14 F	0528	2.2	67	29 Sa	0623	0.2	6	14 M	0639	0.2	6	29 Tu	0135	0.3	9
	1019	0.7	21		1045	0.3	9		1120	0.8	24		0612	2.5	76		0630	2.6	79		0724	2.8	85
	1649	2.9	88		1658	3.4	104		1750	3.0	91		1231	0.4	12		1241	0.4	12		1357	0.3	9
15 W	0511	2.2	67	30 Th	0525	2.4	73	15 Sa	0616	2.3	70	30 Su	0700	2.6	79	15 Tu	0713	2.8	85	30 W	0215	0.3	9
	1106	0.8	24		1144	0.3	9		1213	0.7	21		1325	0.4	12		1333	0.2	6		0803	3.0	91
	1738	2.9	88		1755	3.4	104		1834	3.1	94		1922	3.2	98		1922	3.2	98		1439	0.3	9
16 Th	0621	2.4	73	31 F	0621	2.4	73	16 M	0744	2.7	82	31 Tu	0805	3.1	94	16 W	2023	2.9	88				
	1241	0.3	9		1846	3.4	104		1414	0.3	9		2005	3.1	94								

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Bridgeport, Connecticut, 2020

Times and Heights of High and Low Waters

January				February				March			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>
1 W	0316 0930 1536 2151	6.2 0.9 5.9 0.7	189 27 180 21	16 Th	0320 0941 1545 2206	7.1 -0.2 6.8 -0.3	216 -6 207 -9	1 Sa	0403 1030 1635 2239	6.2 0.8 5.5 0.9	189 24 168 27
2 Th	0405 1024 1628 2239	6.1 0.9 5.7 0.8	186 27 174 24	17 F	0418 1044 1647 2305	7.1 -0.1 6.5 -0.1	216 -3 198 -3	2 Su	0454 1126 1731 2333	6.2 0.8 5.4 1.0	189 24 165 30
3 F	0456 1119 1723 2330	6.2 0.9 5.6 0.8	189 27 171 24	18 Sa	0518 1149 1750	7.1 -0.1 6.3	216 -3 192	3 M	0548 1224 1829	6.2 0.7 5.5	189 21 168
4 Sa	0548 1215 1819	6.2 0.8 5.5	189 24 168	19 Su	0605 0619 1252 1854	0.1 -7.1 -0.2 6.2	3 216 -3 189	4 Tu	0630 0645 1321 1927	0.9 6.4 0.5 5.6	27 195 15 171
5 Su	0622 0639 1309 1913	0.8 6.4 0.6 5.6	24 195 18 171	20 M	0105 0718 1353 1955	0.1 7.2 -0.2 6.2	3 219 -6 189	5 W	0127 0740 1416 2021	0.8 6.6 0.2 5.9	24 201 6 180
6 M	0113 0729 1400 2005	0.8 6.6 0.4 5.8	24 201 12 177	21 Tu	0203 0815 1449 2051	0.1 7.2 -0.3 6.3	3 219 -9 192	6 Th	0222 0834 1508 2112	0.5 6.9 -0.2 6.3	15 210 -6 192
7 Tu	0204 0817 1449 2054	0.6 6.8 0.1 6.0	18 207 3 183	22 W	0258 0909 1540 2142	0.1 7.2 -0.4 6.4	3 219 -12 195	7 F	0315 0926 1557 2201	0.1 7.3 -0.6 6.6	3 223 -18 201
8 W	0252 0904 1536 2141	0.4 7.0 -0.2 6.2	12 213 -6 189	23 Th	0349 0958 1627 2229	0.1 7.2 -0.5 6.5	3 219 -15 198	8 Sa	0405 1016 1645 2248	-0.3 7.6 -0.9 7.0	-9 -232 -27 213
9 Th	0339 0950 1621 2226	0.2 7.3 -0.5 6.5	2 223 -15 198	24 F	0435 1044 1710 2312	0.0 7.2 -0.4 6.6	0 219 -12 201	9 Su	0455 1105 1731 2335	-0.6 7.9 -1.1 7.3	-18 241 -34 223
10 F	0426 1036 1707 2311	0.0 7.5 -0.7 6.7	0 229 -21 204	25 Sa	0519 1127 1750 2354	0.0 7.1 -0.3 6.6	0 219 -9 201	10 M	0545 1153 1818	-0.8 8.0 -1.2	-24 244 -37
11 Sa	0513 1122 1753 2357	-0.2 7.7 -0.9 6.9	-6 235 -27 210	26 Su	0601 1208 1828	0.1 7.0 -0.2	3 213 -6	11 Tu	0623 0636 1243 1905	7.6 -0.9 7.9 -1.1	232 -27 241 -34
12 Su	0601 1210 1840	-0.3 7.7 -0.9	-9 235 -27	27 M	0633 0641 1248 1906	6.6 0.2 6.8 -0.1	201 6 207 -3	12 W	0728 1334 1954	7.7 -0.9 -0.9	235 -27 232 -27
13 M	0644 0652 1259 1928	7.0 -0.4 7.7 -0.9	213 -12 235 -27	28 Tu	0113 0722 1329 1943	6.5 0.3 6.6 0.1	198 9 201 3	13 Th	0202 0823 1427 2045	7.7 -0.7 7.2 -0.6	235 -21 219 -18
14 Tu	0134 0744 1351 2018	7.1 -0.4 7.5 -0.7	216 -12 229 -21	29 W	0152 0805 1411 2022	6.5 0.4 6.3 0.3	198 12 192 9	14 F	0255 0921 1524 2140	7.5 -0.5 6.8 -0.3	229 -15 207 -9
15 W	0225 0841 1446 2111	7.1 -0.3 7.2 -0.5	216 -9 219 -15	30 Th	0233 0849 1455 2103	6.4 0.6 6.0 0.5	195 18 183 15	15 Sa	0352 1022 1625 2239	7.3 -0.2 6.4 0.1	223 -6 195 3
16 Su	0452 1127 1730 2342	7.1 0.0 6.1 0.4	216 0 186 12	17 M	0556 1232 1835	6.9 0.1 6.0	210 3 183	18 Tu	0647 0659 1335 1938	0.5 6.8 0.1 6.1	15 207 -3 186
17 M	0452 1127 1730 2342	7.1 0.0 6.1 0.4	216 0 186 12	18 Tu	0647 0659 1335 1938	0.5 6.8 0.1 6.1	15 207 -3 186	19 W	0148 0800 1432 2035	0.5 6.8 0.0 6.2	15 207 0 189
19 W	0148 0800 1432 2035	0.5 6.8 0.0 6.2	15 207 0 189	20 Th	0245 0855 1523 2126	0.4 6.9 -0.1 6.4	12 210 -3 195	21 F	0335 0944 1608 2211	0.2 6.9 -0.1 6.6	6 210 -3 201
22 Sa	0420 1028 1648 2251	0.1 7.0 -0.2 6.7	3 213 -6 204	23 Su	0501 1108 1725 2329	0.0 7.0 -0.1 6.8	0 213 -3 207	24 M	0540 1147 1800	0.0 6.9 -0.1	0 210 -3
25 Tu	0006 0618 1224 1834	6.9 0.0 6.8 0.0	210 0 207 0	26 W	0618 1225 1840	-1.2 7.9 -1.1	-37 241 -34	27 Th	0047 0655 1301 1908	6.9 0.1 6.6 0.1	210 3 201 3
28 F	0154 0813 1419 2023	6.7 0.3 6.2 0.5	204 9 189 15	29 Sa	0233 0857 1504 2105	6.6 0.5 5.9 0.8	201 15 180 24	30 M	0326 0959 1603 2215	7.4 -0.1 6.4 0.4	226 -3 195 12
31 Tu	0328 1007 1616 2219	6.6 0.7 5.9 1.2	201 21 180 37	31 Tu	0328 1007 1616 2219	6.6 0.7 5.9 1.2	201 21 180 37				
1 Su	0316 0946 1553 2154	6.5 0.6 5.7 1.0	198 18 174 30	16 M	0427 1103 1707 2320	7.0 0.2 6.2 0.7	213 6 189 21	17 Tu	0532 1208 1813	6.7 0.4 6.1	204 12 186
2 M	0405 1041 1649 2251	6.3 0.7 5.6 1.1	192 21 171 34	18 W	0627 0638 1311 1916	0.8 6.5 0.5 6.1	24 198 15 186	19 Th	0130 0740 1408 2013	0.8 6.5 0.4 6.3	24 198 12 192
3 Tu	0502 1142 1749 2352	6.3 0.7 5.6 1.1	192 21 171 34	20 F	0227 0835 1457 2103	0.6 6.6 0.3 6.5	18 201 9 198	21 Sa	0316 0923 1541 2146	0.4 6.7 0.2 6.8	12 204 6 207
4 W	0604 1244 1851	6.4 0.6 5.8	195 18 177	22 Su	0400 1006 1619 2225	0.2 6.8 0.2 6.9	6 207 6 210	23 M	0440 1045 1655 2302	0.1 6.9 0.1 7.1	3 210 3 216
5 Th	0655 0707 1344 1949	0.9 6.6 0.3 6.1	27 201 9 186	24 Tu	0517 1123 1729 2336	0.0 6.9 0.2 7.2	0 210 6 219	25 W	0553 1159 1802	0.0 6.8 0.2	0 207 6
6 F	0155 0807 1439 2044	0.5 7.0 -0.1 6.5	15 213 -3 198	26 Th	0618 1225 1840	-1.2 7.9 -1.1	-37 241 -34	27 F	0044 0705 1312 1912	7.1 0.1 6.5 0.5	216 3 198 15
7 Sa	0252 0903 1531 2135	0.0 7.4 -0.5 7.0	0 226 -15 213	28 M	0119 0743 1351 1950	7.0 0.2 6.4 0.7	213 6 195 21	29 Tu	0156 0825 1433 2032	6.9 0.4 6.2 0.9	210 12 189 27
8 Su	0345 0955 1619 2224	-0.4 7.8 -0.8 7.5	-12 238 -24 229	30 W	0238 0912 1522 2122	6.7 0.5 6.0 1.1	204 15 183 34	31 Th	0328 1007 1616 2219	6.6 0.7 5.9 1.2	201 21 180 37

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Bridgeport, Connecticut, 2020

Times and Heights of High and Low Waters

July				August				September			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>
1 W	0134 0.0 0 0735 6.8 207 1344 0.3 9 1957 8.0 244	16 Th	0141 0.9 27 0745 6.0 183 1342 1.2 37 1958 7.0 213	1 Sa	0312 0.0 0 0914 6.8 207 1521 0.5 15 2132 7.8 238	16 Su	0246 0.5 15 0852 6.5 198 1453 0.8 24 2104 7.4 226	1 Tu	0427 0.1 3 1030 7.1 216 1642 0.4 12 2248 7.4 226	16 W	0353 -0.3 -9 0958 7.6 232 1610 -0.2 -6 2218 8.1 247
2 Th	0232 -0.2 -6 0833 6.8 207 1440 0.2 6 2052 8.1 247	17 F	0231 0.7 21 0836 6.1 186 1432 1.1 34 2046 7.1 216	2 Su	0403 -0.1 -3 1005 6.9 210 1612 0.4 12 2221 7.7 235	17 M	0335 0.1 3 0940 6.8 207 1543 0.5 15 2153 7.7 235	2 W	0506 0.2 6 1111 7.2 219 1723 0.4 12 2328 7.3 223	17 Th	0439 -0.6 -18 1045 8.1 247 1700 -0.6 -18 2307 8.2 250
3 F	0327 -0.4 -12 0929 6.9 210 1534 0.2 6 2145 8.1 247	18 Sa	0318 0.4 12 0924 6.3 192 1521 0.9 27 2132 7.3 223	3 M	0450 -0.1 -3 1052 7.0 213 1700 0.4 12 2308 7.6 232	18 Tu	0422 -0.2 -6 1027 7.2 219 1632 0.2 6 2241 8.0 244	3 Th	0543 0.3 9 1149 7.3 223 1802 0.4 12	18 F	0525 -0.7 -21 1132 8.4 256 1751 -0.7 -21 2356 8.1 247
4 Sa	0419 -0.4 -12 1021 7.0 213 1626 0.2 6 2236 8.1 247	19 Su	0404 0.2 6 1010 6.6 201 1608 0.7 21 2218 7.6 232	4 Tu	0533 0.0 0 1136 7.1 216 1745 0.4 12 2351 7.5 229	19 W	0508 -0.4 -12 1113 7.5 229 1721 -0.1 -3 2329 8.1 247	4 F	0008 7.2 219 0619 0.4 12 1226 7.3 223 1841 0.5 15	19 Sa	0612 -0.7 -21 1220 8.5 259 1843 -0.7 -21
5 Su	0508 -0.4 -12 1111 7.1 216 1716 0.3 9 2325 7.9 241	20 M	0449 -0.1 -3 1055 6.8 207 1655 0.5 15 2303 7.7 235	5 W	0613 0.1 3 1218 7.1 216 1828 0.5 15	20 Th	0553 -0.6 -18 1159 7.8 238 1811 -0.3 -9	5 Sa	0046 7.0 213 0654 0.5 15 1303 7.2 219 1920 0.6 18	20 Su	0047 7.9 241 0700 -0.5 -15 1310 8.5 259 1936 -0.6 -18
6 M	0555 -0.3 -9 1158 7.1 216 1804 0.4 12	21 Tu	0534 -0.3 -9 1140 7.0 213 1742 0.3 9 2349 7.9 241	6 Th	0034 7.3 223 0652 0.2 6 1259 7.1 216 1911 0.6 18	21 F	0017 8.1 247 0639 -0.6 -18 1246 8.0 244 1902 -0.3 -9	6 Su	0126 6.7 204 0730 0.7 21 1341 7.1 216 2001 0.7 21	21 M	0139 7.6 232 0751 -0.2 -6 1402 8.3 253 2032 -0.3 -9
7 Tu	0012 7.7 235 0640 -0.1 -3 1245 7.0 213 1852 0.5 15	22 W	0619 -0.4 -12 1225 7.2 219 1830 0.2 6	7 F	0116 7.1 216 0731 0.4 12 1340 7.0 213 1954 0.7 21	22 Sa	0107 7.9 241 0727 -0.5 -15 1335 8.1 247 1956 -0.3 -9	7 M	0207 6.5 198 0809 1.0 30 1420 7.0 213 2045 0.9 27	22 Tu	0235 7.2 219 0847 0.2 6 1458 7.9 241 2132 0.0 0
8 W	0058 7.4 226 0724 0.1 3 1330 6.9 210 1939 0.7 21	23 Th	0036 7.9 241 0705 -0.4 -12 1311 7.4 226 1921 0.1 3	8 Sa	0158 6.8 207 0809 0.6 18 1421 7.0 213 2038 0.9 27	23 Su	0159 7.6 232 0816 -0.3 -9 1427 8.1 247 2052 -0.1 -3	8 Tu	0251 6.2 189 0851 1.2 37 1504 6.8 207 2133 1.1 34	23 W	0335 6.8 207 0947 0.5 15 1559 7.6 232 2235 0.3 9
9 Th	0145 7.1 216 0807 0.3 9 1415 6.9 210 2027 0.9 27	24 F	0126 7.8 238 0752 -0.4 -12 1400 7.6 232 2014 0.1 3	9 Su	0242 6.5 198 0850 0.8 24 1504 6.9 210 2125 1.0 30	24 M	0255 7.3 223 0910 0.0 0 1522 7.9 241 2152 0.1 3	9 W	0340 6.0 183 0940 1.4 43 1552 6.7 204 2227 1.2 37	24 Th	0439 6.6 201 1051 0.8 24 1704 7.3 223 2340 0.5 15
10 F	0232 6.8 207 0850 0.6 18 1501 6.8 207 2116 1.0 30	25 Sa	0218 7.6 232 0841 -0.3 -9 1451 7.6 232 2110 0.2 6	10 M	0329 6.2 189 0934 1.1 34 1549 6.8 207 2215 1.1 34	25 Tu	0354 6.9 210 1007 0.3 9 1621 7.7 235 2255 0.3 9	10 Th	0434 5.9 180 1034 1.5 46 1647 6.6 201 2324 1.2 37	25 F	0545 6.5 198 1158 0.9 27 1810 7.1 216
11 Sa	0320 6.5 198 0934 0.8 24 1549 6.8 207 2208 1.1 34	26 Su	0313 7.3 223 0933 -0.1 -3 1545 7.7 235 2210 0.2 6	11 Tu	0420 6.0 183 1022 1.2 37 1638 6.7 204 2309 1.2 37	26 W	0456 6.6 201 1109 0.6 18 1723 7.5 229 2359 0.4 12	11 F	0532 5.9 180 1133 1.5 46 1746 6.6 201	26 Sa	0043 0.6 18 0648 6.5 198 1302 0.9 27 1913 7.1 216
12 Su	0410 6.2 189 1020 1.0 30 1637 6.7 204 2301 1.2 37	27 M	0411 7.0 213 1029 0.1 3 1642 7.7 235 2313 0.2 6	12 W	0514 5.9 180 1114 1.4 43 1731 6.7 204	27 Th	0601 6.5 198 1212 0.7 21 1826 7.4 226	12 Sa	0023 1.0 30 0631 6.0 183 1233 1.3 40 1845 6.8 207	27 Su	0141 0.5 15 0747 6.7 204 1400 0.7 21 2009 7.1 216
13 M	0503 6.0 183 1109 1.1 34 1727 6.7 204 2355 1.2 37	28 Tu	0513 6.7 204 1127 0.3 9 1742 7.7 235	13 Th	0005 1.1 34 0610 5.8 177 1209 1.4 43 1825 6.7 204	28 F	0103 0.4 12 0705 6.5 198 1315 0.8 24 1928 7.4 226	13 Su	0121 0.8 24 0727 6.3 192 1332 1.0 30 1943 7.1 216	28 M	0233 0.4 12 0838 6.9 210 1452 0.6 18 2059 7.2 219
14 Tu	0558 5.9 180 1159 1.2 37 1818 6.8 207	29 W	0016 0.2 6 0617 6.6 201 1227 0.5 15 1842 7.7 235	14 F	0101 1.0 30 0707 5.9 180 1306 1.3 40 1920 6.9 210	29 Sa	0202 0.3 9 0805 6.6 201 1415 0.7 21 2026 7.4 226	14 M	0215 0.4 12 0820 6.7 204 1427 0.6 18 2037 7.5 229	29 Tu	0318 0.3 9 0923 7.1 216 1538 0.4 12 2144 7.2 219
15 W	0049 1.1 34 0652 5.9 180 1251 1.3 40 1908 6.8 207	30 Th	0118 0.2 6 0719 6.6 201 1328 0.5 15 1941 7.7 235	15 Sa	0155 0.8 24 0801 6.2 189 1400 1.1 34 2013 7.1 216	30 Su	0256 0.2 6 0859 6.8 207 1509 0.6 18 2118 7.5 229	15 Tu	0305 0.0 0 0910 7.2 219 1519 0.2 6 2128 7.8 238	30 W	0359 0.3 9 1004 7.3 223 1620 0.3 9 2225 7.2 219
		31 F	0217 0.1 3 0819 6.6 201 1426 0.5 15 2038 7.7 235			31 M	0344 0.2 6 0947 7.0 213 1557 0.5 15 2205 7.5 229				

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

New York (The Battery), New York, 2020

Times and Heights of High and Low Waters

January				February				March			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>
1 W	0034 3.8 116 0624 0.9 27 1239 4.1 125 1901 0.5 15	16 Th	0027 4.6 140 0637 0.0 0 1236 4.7 143 1915 -0.4 -12	1 Sa	0103 3.9 119 0735 1.0 30 1320 3.6 110 1931 0.7 21	16 Su	0155 4.8 146 0834 0.2 6 1420 4.0 122 2051 0.2 6	1 Su	0635 0.9 27 1236 3.7 113 1812 0.8 24	16 M	0130 4.9 149 0811 0.3 9 1404 4.1 125 2027 0.6 18
2 Th	0119 3.7 113 0726 1.1 34 1324 3.9 119 1953 0.6 18	17 F	0123 4.7 143 0747 0.1 3 1335 4.4 134 2016 -0.3 -9	2 Su	0142 3.9 119 0843 1.0 30 1408 3.4 104 2034 0.7 21	17 M	0256 4.7 143 0939 0.2 6 1527 3.8 116 2152 0.2 6	2 M	0039 4.2 128 0752 1.0 30 1324 3.5 107 1915 0.9 27	17 Tu	0231 4.6 140 0916 0.4 12 1509 3.9 119 2131 0.7 21
3 F	0204 3.8 116 0830 1.1 34 1411 3.7 113 2045 0.6 18	18 Sa	0220 4.7 143 0855 0.1 3 1436 4.1 125 2116 -0.2 -6	3 M	0228 4.0 122 0943 0.8 24 1506 3.4 104 2134 0.6 18	18 Tu	0401 4.6 140 1037 0.1 3 1635 3.8 116 2248 0.2 6	3 Tu	0129 4.2 128 0904 0.9 27 1422 3.5 107 2048 0.9 27	18 W	0336 4.5 137 1014 0.4 12 1616 3.9 119 2229 0.6 18
4 Sa	0250 3.8 116 0928 0.9 27 1503 3.6 110 2133 0.5 15	19 Su	0321 4.7 143 0958 0.0 0 1543 4.0 122 2212 -0.2 -6	4 Tu	0324 4.1 125 1037 0.6 18 1612 3.5 107 2228 0.4 12	19 W	0505 4.6 140 1131 0.0 0 1737 3.9 119 2341 0.1 3	4 W	0229 4.3 131 1004 0.7 21 1532 3.6 110 2158 0.7 21	19 Th	0441 4.5 137 1107 0.3 9 1716 4.1 125 2321 0.5 15
5 Su	0339 4.0 122 1021 0.7 21 1600 3.5 107 2219 0.4 12	20 M	0424 4.8 146 1056 -0.1 -3 1650 3.9 119 2306 -0.2 -6	5 W	0427 4.4 134 1128 0.3 9 1714 3.7 113 2321 0.2 6	20 Th	0600 4.7 143 1221 -0.1 -3 1828 4.1 125	5 Th	0342 4.4 134 1058 0.4 12 1642 3.9 119 2257 0.3 9	20 F	0537 4.6 140 1155 0.2 6 1807 4.3 131
6 M	0429 4.2 128 1110 0.5 15 1657 3.6 110 2304 0.2 6	21 Tu	0523 4.9 149 1150 -0.3 -9 1750 4.0 122 2358 -0.2 -6	6 Th	0526 4.7 143 1218 -0.1 -3 1808 4.0 122	21 F	0030 0.1 3 0647 4.9 149 1307 -0.2 -6 1913 4.3 131	6 F	0455 4.7 143 1150 0.0 0 1741 4.3 131 2353 -0.1 -3	21 Sa	0010 0.4 12 0625 4.7 143 1239 0.1 3 1850 4.5 137
7 Tu	0516 4.5 137 1158 0.2 6 1748 3.8 116 2350 0.1 3	22 W	0616 5.0 152 1241 -0.4 -12 1842 4.1 125	7 F	0013 -0.1 -3 0618 5.0 152 1307 -0.4 -12 1855 4.3 131	22 Sa	0117 0.0 0 0729 4.9 149 1351 -0.3 -9 1954 4.4 134	7 Sa	0555 5.1 155 1240 -0.4 -12 1833 4.7 143	22 Su	0055 0.2 6 0706 4.8 146 1320 0.0 0 1929 4.7 143
8 W	0600 4.8 146 1245 -0.1 -3 1834 3.9 119	23 Th	0048 -0.2 -6 0703 5.1 155 1330 -0.5 -15 1929 4.2 128	8 Sa	0105 -0.5 -15 0706 5.3 162 1355 -0.7 -21 1942 4.6 140	23 Su	0201 -0.1 -3 0808 4.9 149 1431 -0.3 -9 2033 4.5 137	8 Su	0047 -0.5 -15 0648 5.5 168 1329 -0.7 -21 1921 5.1 155	23 M	0138 0.1 3 0744 4.9 149 1359 -0.1 -3 2004 4.8 146
9 Th	0037 -0.1 -3 0641 5.0 152 1332 -0.4 -12 1917 4.1 125	24 F	0136 -0.2 -6 0746 5.1 155 1415 -0.5 -15 2013 4.2 128	9 Su	0157 -0.7 -21 0753 5.5 168 1441 -1.0 -30 2029 4.8 146	24 M	0242 -0.1 -3 0846 4.9 149 1508 -0.3 -9 2110 4.5 137	9 M	0140 -0.8 -24 0736 5.7 174 1416 -1.0 -30 2008 5.4 165	24 Tu	0219 0.0 0 0820 4.8 146 1435 -0.1 -3 2038 4.8 146
10 F	0125 -0.3 -9 0723 5.3 162 1418 -0.6 -18 2000 4.3 131	25 Sa	0221 -0.2 -6 0828 5.0 152 1458 -0.5 -15 2057 4.2 128	10 M	0247 -0.9 -27 0841 5.6 171 1527 -1.1 -34 2118 5.0 152	25 Tu	0321 0.0 0 0924 4.7 143 1543 -0.2 -6 2147 4.4 134	10 Tu	0231 -1.0 -30 0825 5.7 174 1502 -1.1 -34 2057 5.6 171	25 W	0258 0.0 0 0856 4.7 143 1509 0.0 0 2109 4.8 146
11 Sa	0213 -0.5 -15 0806 5.4 165 1504 -0.8 -24 2046 4.4 134	26 Su	0304 -0.1 -3 0909 4.9 149 1537 -0.4 -12 2140 4.2 128	11 Tu	0336 -0.9 -27 0932 5.5 168 1612 -1.1 -34 2212 5.0 152	26 W	0358 0.1 3 1001 4.5 137 1615 0.0 0 2222 4.3 131	11 W	0321 -1.1 -34 0916 5.6 171 1547 -1.0 -30 2148 5.6 171	26 Th	0335 0.1 3 0931 4.5 137 1540 0.2 6 2137 4.7 143
12 Su	0300 -0.6 -18 0853 5.4 165 1549 -0.8 -24 2137 4.4 134	27 M	0344 0.0 0 0951 4.7 143 1615 -0.3 -9 2224 4.1 125	12 W	0426 -0.8 -24 1026 5.3 162 1659 -0.9 -27 2307 5.1 155	27 Th	0434 0.3 9 1038 4.3 131 1644 0.2 6 2255 4.3 131	12 Th	0411 -0.9 -27 1009 5.3 162 1633 -0.8 -24 2241 5.6 171	27 F	0410 0.2 6 1006 4.3 131 1608 0.3 9 2203 4.7 143
13 M	0348 -0.6 -18 0944 5.3 162 1635 -0.8 -24 2233 4.5 137	28 Tu	0423 0.2 6 1033 4.5 137 1651 -0.1 -3 2306 4.0 122	13 Th	0519 -0.6 -18 1123 5.0 152 1748 -0.6 -18	28 F	0509 0.5 15 1116 4.1 125 1709 0.4 12 2326 4.2 128	13 F	0503 -0.7 -21 1106 5.0 152 1722 -0.5 -15 2337 5.4 165	28 Sa	0445 0.4 12 1043 4.1 125 1632 0.5 15 2232 4.6 140
14 Tu	0438 -0.5 -15 1041 5.2 158 1723 -0.7 -21 2330 4.6 140	29 W	0501 0.4 12 1115 4.3 131 1726 0.1 3 2347 3.9 119	14 F	0002 5.0 152 0619 -0.2 -6 1220 4.6 140 1844 -0.3 -9	29 Sa	0545 0.7 21 1155 3.8 116 1735 0.6 18 2359 4.2 128	14 Sa	0600 -0.3 -9 1204 4.6 140 1816 0.0 0	29 Su	0519 0.6 18 1122 3.9 119 1700 0.7 21 2310 4.6 140
15 W	0533 -0.3 -9 1139 4.9 149 1816 -0.5 -15	30 Th	0541 0.6 18 1156 4.0 122 1801 0.4 12	15 Sa	0058 4.9 149 0725 0.0 0 1318 4.3 131 1947 0.0 0	15 Su	0033 5.1 155 0703 0.1 3 1303 4.3 131 1919 0.4 12	15 Su	0033 5.1 155 0703 0.1 3 1303 4.3 131 1919 0.4 12	30 M	0601 0.8 24 1207 3.8 116 1738 0.9 27 2357 4.5 137
		31 F	0026 3.9 119 0630 0.9 27 1237 3.8 116 1840 0.5 15					31 Tu	0709 0.9 27 1258 3.7 113 1834 1.0 30		

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

New York (The Battery), New York, 2020

Times and Heights of High and Low Waters

April				May				June			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
<small>h m</small> <small>ft cm</small>	<small>ft cm</small>	<small>h m</small> <small>ft cm</small>	<small>ft cm</small>	<small>h m</small> <small>ft cm</small>	<small>ft cm</small>	<small>h m</small> <small>ft cm</small>	<small>ft cm</small>	<small>h m</small> <small>ft cm</small>	<small>ft cm</small>	<small>h m</small> <small>ft cm</small>	<small>ft cm</small>
1 W 0053 0828 1357 2014	4.5 137 0.9 27 3.8 116 1.1 34	16 Th 0305 0945 1549 2204	4.4 134 0.6 18 4.1 125 1.0 30	1 F 0138 0903 1443 2114	4.8 146 0.6 18 4.3 131 0.8 24	16 Sa 0326 0958 1608 2225	4.3 131 0.7 21 4.4 134 1.0 30	1 M 0334 1024 1625 2257	4.8 146 -0.1 -3 5.3 162 0.1 3	16 Tu 0429 1041 1700 2326	4.0 122 0.7 21 4.7 143 0.8 24
2 Th 0156 0933 1504 2133	4.5 137 0.7 21 3.9 119 0.8 24	17 F 0407 1036 1647 2256	4.4 134 0.5 15 4.3 131 0.8 24	2 Sa 0246 1000 1548 2217	4.8 146 0.3 9 4.6 140 0.5 15	17 Su 0422 1042 1659 2313	4.3 131 0.6 18 4.6 140 0.9 27	2 Tu 0442 1115 1722 2353	4.8 146 -0.2 -6 5.7 174 -0.2 -6	17 W 0521 1123 1743	4.1 125 0.7 21 4.9 149
3 F 0309 1029 1613 2236	4.6 140 0.4 12 4.2 128 0.4 12	18 Sa 0504 1121 1737 2344	4.5 137 0.4 12 4.5 137 0.7 21	3 Su 0358 1052 1650 2315	4.9 149 0.0 0 5.1 155 0.1 3	18 M 0514 1124 1744 2359	4.3 131 0.5 15 4.8 146 0.7 21	3 W 0544 1206 1815	4.9 149 -0.3 -9 6.0 183	18 Th 0012 0609 1205 1821	0.6 18 4.1 125 0.6 18 5.1 155
4 Sa 0425 1121 1715 2333	4.9 149 0.0 0 4.7 143 0.0 0	19 Su 0553 1204 1820	4.6 140 0.3 9 4.7 143	4 M 0505 1142 1745	5.1 155 -0.3 -9 5.5 168	19 Tu 0600 1204 1823	4.4 134 0.5 15 5.0 152	4 Th 0048 0640 1257 1905	-0.4 -12 5.0 152 -0.3 -9 6.1 186	19 F 0058 0652 1248 1856	0.4 12 4.2 128 0.5 15 5.3 162
5 Su 0531 1211 1809	5.2 158 -0.3 -9 5.2 158	20 M 0029 0636 1244 1858	0.5 15 4.7 143 0.3 9 4.9 149	5 Tu 0010 0604 1232 1836	-0.3 -9 5.3 162 -0.5 -15 5.9 180	20 W 0043 0643 1244 1858	0.5 15 4.4 134 0.4 12 5.2 158	5 F 0141 0733 1348 1953	-0.6 -18 5.0 152 -0.3 -9 6.1 186	20 Sa 0142 0733 1331 1929	0.2 6 4.3 131 0.5 15 5.4 165
6 M 0028 0626 1300 1858	-0.4 -12 5.5 168 -0.6 -18 5.6 171	21 Tu 0112 0715 1323 1933	0.3 9 4.7 143 0.2 6 5.1 155	6 W 0105 0657 1321 1924	-0.6 -18 5.3 162 -0.6 -18 6.2 189	21 Th 0126 0722 1323 1929	0.3 9 4.4 134 0.4 12 5.3 162	6 Sa 0232 0825 1438 2041	-0.6 -18 4.9 149 -0.2 -6 6.0 183	21 Su 0226 0812 1414 2004	0.1 3 4.3 131 0.4 12 5.4 165
7 Tu 0122 0717 1349 1946	-0.7 -21 5.6 171 -0.8 -24 5.9 180	22 W 0154 0752 1400 2004	0.2 6 4.7 143 0.2 6 5.1 155	7 Th 0158 0748 1410 2012	-0.8 -24 5.3 162 -0.6 -18 6.3 192	22 F 0209 0800 1401 1958	0.2 6 4.4 134 0.4 12 5.3 162	7 Su 0321 0919 1527 2132	-0.6 -18 4.8 146 0.0 0 5.8 177	22 M 0309 0854 1457 2042	0.0 0 4.3 131 0.4 12 5.5 168
8 W 0214 0806 1436 2034	-0.9 -27 5.6 171 -0.9 -27 6.1 186	23 Th 0234 0828 1435 2032	0.1 3 4.6 140 0.3 9 5.1 155	8 F 0249 0840 1459 2101	-0.8 -24 5.2 158 -0.5 -15 6.1 186	23 Sa 0250 0837 1439 2026	0.1 3 4.3 131 0.5 15 5.3 162	8 M 0409 1015 1614 2226	-0.4 -12 4.6 140 0.3 9 5.5 168	23 Tu 0351 0940 1541 2127	-0.1 -3 4.4 134 0.4 12 5.4 165
9 Th 0305 0857 1522 2123	-1.0 -30 5.5 168 -0.8 -24 6.0 183	24 F 0312 0903 1508 2058	0.1 3 4.5 137 0.4 12 5.1 155	9 Sa 0339 0935 1547 2153	-0.7 -21 5.0 152 -0.2 -6 5.9 180	24 Su 0330 0916 1516 2058	0.1 3 4.3 131 0.5 15 5.3 162	9 Tu 0457 1111 1703 2320	-0.1 -3 4.5 137 0.6 18 5.2 158	24 W 0433 1031 1626 2220	0.0 0 4.4 134 0.4 12 5.3 162
10 F 0356 0952 1609 2216	-0.9 -27 5.2 158 -0.5 -15 5.8 177	25 Sa 0350 0939 1538 2124	0.2 6 4.3 131 0.5 15 5.0 152	10 Su 0429 1033 1635 2248	-0.5 -15 4.8 146 0.1 3 5.6 171	25 M 0409 0959 1553 2138	0.2 6 4.2 128 0.6 18 5.2 158	10 W 0545 1205 1755	0.2 6 4.4 134 1.0 30	25 Th 0519 1125 1716 2317	0.0 0 4.5 137 0.5 15 5.2 158
11 Sa 0446 1050 1657 2312	-0.6 -18 4.9 149 -0.1 -3 5.6 171	26 Su 0426 1018 1608 2157	0.3 9 4.1 125 0.6 18 5.0 152	11 M 0519 1132 1727 2345	-0.2 -6 4.6 140 0.5 15 5.2 158	26 Tu 0450 1048 1632 2227	0.3 9 4.2 128 0.7 21 5.1 155	11 Th 0012 0637 1256 1854	4.9 149 0.4 12 4.4 134 1.2 37	26 F 0609 1219 1817	0.1 3 4.7 143 0.7 21
12 Su 0540 1149 1750	-0.2 -6 4.6 140 0.3 9	27 M 0504 1102 1640 2240	0.5 15 4.0 122 0.8 24 4.9 149	12 Tu 0614 1229 1825	0.2 6 4.4 134 0.9 27	27 W 0536 1140 1719 2324	0.4 12 4.2 128 0.8 24 5.0 152	12 F 0101 0731 1345 1956	4.6 140 0.6 18 4.3 131 1.3 40	27 Sa 0015 0705 1312 1928	5.1 155 0.1 3 4.8 146 0.7 21
13 M 0009 0639 1248 1852	5.2 158 0.2 6 4.4 134 0.7 21	28 Tu 0547 1151 1722 2334	0.6 18 4.0 122 0.9 27 4.8 146	13 W 0040 0713 1324 1930	4.9 149 0.5 15 4.3 131 1.2 37	28 Th 0630 1234 1822	0.4 12 4.3 131 0.9 27	13 Sa 0150 0824 1434 2056	4.4 134 0.7 21 4.3 131 1.3 40	28 Su 0112 0805 1406 2038	4.9 149 0.1 3 5.0 152 0.6 18
14 Tu 0106 0744 1347 2000	4.9 149 0.5 15 4.2 128 1.0 30	29 W 0647 1245 1822	0.8 24 4.0 122 1.1 34	14 Th 0135 0813 1419 2035	4.6 140 0.6 18 4.2 128 1.3 40	29 F 0024 0732 1328 1942	5.0 152 0.4 12 4.5 137 0.9 27	14 Su 0240 0913 1523 2150	4.2 128 0.8 24 4.4 134 1.2 37	29 M 0212 0903 1503 2142	4.8 146 0.1 3 5.2 158 0.4 12
15 W 0204 0848 1447 2106	4.6 140 0.6 18 4.1 125 1.0 30	30 Th 0034 0758 1342 1956	4.8 146 0.8 24 4.1 125 1.1 34	15 F 0229 0909 1514 2134	4.4 134 0.7 21 4.3 131 1.2 37	30 Sa 0125 0834 1425 2056	4.9 149 0.3 9 4.7 143 0.7 21	15 M 0334 0958 1613 2239	4.1 125 0.7 21 4.6 140 1.0 30	30 Tu 0316 0959 1603 2241	4.6 140 0.0 0 5.4 165 0.2 6
						31 Su 0228 0931 1525 2159	4.8 146 0.1 3 5.0 152 0.4 12				

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

New York (The Battery), New York, 2020

Times and Heights of High and Low Waters

October				November				December											
Time		Height		Time		Height		Time		Height		Time		Height					
h	m	ft	cm	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm
1	Th	0139	0.1	3	16	F	0119	-0.6	-18	1	Su	0217	0.2	6	16	M	0230	-0.8	-24
		0746	5.1	155			0717	6.0	183			0819	5.2	158			0832	6.2	189
		1401	0.4	12			1346	-0.6	-18			1456	0.2	6			1513	-0.9	-27
		1959	5.1	155			1933	5.7	174			2044	4.5	137			2101	5.0	152
2	F	0216	0.1	3	17	Sa	0206	-0.8	-24	2	M	0251	0.3	9	17	Tu	0320	-0.6	-18
		0821	5.2	158			0803	6.2	189			0846	5.1	155			0924	6.0	183
		1441	0.4	12			1437	-0.7	-21			1534	0.3	9			1603	-0.7	-21
		2035	5.0	152			2023	5.6	171			2120	4.2	128			2159	4.7	143
3	Sa	0251	0.2	6	18	Su	0253	-0.7	-21	3	Tu	0322	0.5	15	18	W	0409	-0.3	-9
		0853	5.1	155			0852	6.2	189			0911	5.0	152			1020	5.7	174
		1520	0.4	12			1529	-0.7	-21			1612	0.4	12			1655	-0.4	-12
		2111	4.8	146			2116	5.3	162			2159	4.0	122			2301	4.5	137
4	Su	0324	0.4	12	19	M	0340	-0.6	-18	4	W	0351	0.6	18	19	Th	0501	0.1	3
		0924	5.0	152			0944	6.1	186			0941	4.9	149			1120	5.3	162
		1557	0.5	15			1620	-0.5	-15			1650	0.6	18			1750	-0.1	-3
		2149	4.5	137			2215	5.0	152			2242	3.9	119					
5	M	0353	0.6	18	20	Tu	0429	-0.2	-6	5	Th	0421	0.8	24	20	F	0003	4.3	131
		0953	4.9	149			1042	5.8	177			1020	4.7	143			0558	0.5	15
		1634	0.7	21			1714	-0.2	-6			1731	0.8	24			1219	5.0	152
		2229	4.2	128			2318	4.7	143			2333	3.8	116			1849	0.2	6
6	Tu	0419	0.8	24	21	W	0522	0.2	6	6	F	0458	1.0	30	21	Sa	0101	4.2	128
		1023	4.8	146			1142	5.5	168			1111	4.7	143			0703	0.8	24
		1712	0.9	27			1813	0.1	3			1826	0.9	27			1316	4.7	143
		2312	4.0	122													1951	0.4	12
7	W	0445	1.0	30	22	Th	0021	4.5	137	7	Sa	0026	3.7	113	22	Su	0158	4.1	125
		1058	4.7	143			0623	0.6	18			0549	1.1	34			0811	1.0	30
		1755	1.1	34			1243	5.2	158			1210	4.6	140			1411	4.5	137
							1919	0.4	12			1934	0.9	27			2050	0.4	12
8	Th	0000	3.8	116	23	F	0123	4.3	131	8	Su	0122	3.8	116	23	M	0255	4.1	125
		0519	1.2	37			0732	0.9	27			0714	1.2	37			0913	0.9	27
		1144	4.6	140			1343	5.0	152			1312	4.6	140			1507	4.3	131
		1859	1.3	40			2025	0.5	15			2039	0.7	21			2141	0.4	12
9	F	0051	3.8	116	24	Sa	0225	4.2	128	9	M	0220	4.0	122	24	Tu	0350	4.2	128
		0609	1.3	40			0841	1.0	30			0843	1.0	30			1008	0.8	24
		1238	4.6	140			1444	4.8	146			1417	4.7	143			1603	4.2	128
		2012	1.2	37			2125	0.5	15			2135	0.4	12			2227	0.3	9
10	Sa	0146	3.8	116	25	Su	0327	4.3	131	10	Tu	0321	4.3	131	25	W	0442	4.4	134
		0742	1.4	43			0942	0.9	27			0948	0.6	18			1056	0.7	21
		1338	4.6	140			1544	4.7	143			1524	4.8	146			1655	4.2	128
		2114	1.0	30			2217	0.4	12			2226	0.0	0			2309	0.2	6
11	Su	0247	3.9	119	26	M	0426	4.4	134	11	W	0421	4.8	146	26	Th	0529	4.6	140
		0908	1.2	37			1036	0.8	24			1046	0.2	6			1142	0.5	15
		1445	4.7	143			1641	4.7	143			1630	4.9	149			1743	4.2	128
		2208	0.7	21			2303	0.3	9			2315	-0.3	-9			2349	0.2	6
12	M	0351	4.2	128	27	Tu	0518	4.6	140	12	Th	0516	5.3	162	27	F	0610	4.8	146
		1010	0.8	24			1124	0.6	18			1141	-0.2	-6			1227	0.3	9
		1555	5.0	152			1731	4.7	143			1730	5.1	155			1826	4.3	131
		2257	0.3	9			2345	0.2	6										
13	Tu	0450	4.6	140	28	W	0602	4.8	146	13	F	0003	-0.6	-18	28	Sa	0028	0.1	3
		1106	0.4	12			1210	0.5	15			0607	5.7	174			0646	4.9	149
		1658	5.2	158			1815	4.8	146			1235	-0.5	-15			1310	0.2	6
		2345	-0.1	-3								1824	5.2	158			1906	4.3	131
14	W	0543	5.1	155	29	Th	0025	0.2	6	14	Sa	0052	-0.8	-24	29	Su	0107	0.1	3
		1200	0.0	0			0641	5.0	152			0655	6.1	186			0719	5.0	152
		1754	5.5	168			1253	0.4	12			1329	-0.8	-24			1352	0.1	3
							1854	4.8	146			1916	5.3	162			1944	4.2	128
15	Th	0032	-0.4	-12	30	F	0104	0.1	3	15	Su	0141	-0.8	-24	30	M	0146	0.2	6
		0631	5.6	171			0717	5.1	155			0743	6.2	189			0749	5.0	152
		1253	-0.4	-12			1336	0.3	9			1421	-0.9	-27			1433	0.0	0
		1844	5.7	174			1932	4.7	143			2007	5.2	158			2021	4.1	125
					31	Sa	0141	0.1	3										
							0749	5.2	158										
							1417	0.2	6										
							2008	4.6	140										

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Bayonne Bridge, Staten Island, New York, 2020

Times and Heights of High and Low Waters

April				May				June			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft	h m	ft	h m	ft	h m	ft	h m	ft	h m	ft
1 W	0051 5.0 152 0818 1.0 30 1349 4.2 128 2000 1.1 34	16 Th	0305 4.9 149 0956 0.7 21 1542 4.5 137 2215 1.1 34	1 F	0135 5.3 162 0905 0.7 21 1439 4.8 146 2113 0.9 27	16 Sa	0324 4.7 143 1005 0.8 24 1602 4.8 146 2234 1.1 34	1 M	0330 5.4 165 1031 0.0 0 1622 5.9 180 2305 0.2 6	16 Tu	0424 4.5 137 1043 0.7 21 1653 5.2 158 2332 0.9 27
2 Th	0155 5.1 155 0936 0.8 24 1457 4.3 131 2132 0.9 27	17 F	0405 4.8 146 1047 0.6 18 1640 4.7 143 2307 0.9 27	2 Sa	0243 5.3 162 1006 0.3 9 1544 5.1 155 2222 0.5 15	17 Su	0419 4.7 143 1049 0.7 21 1653 5.0 152 2321 0.9 27	2 Tu	0437 5.4 165 1123 -0.2 -6 1720 6.2 189	17 W	0517 4.5 137 1125 0.6 18 1738 5.4 165
3 F	0306 5.2 158 1037 0.4 12 1609 4.6 140 2241 0.5 15	18 Sa	0502 4.8 146 1131 0.5 15 1732 4.9 149 2354 0.7 21	3 Su	0354 5.5 168 1100 0.0 0 1647 5.6 171 2322 0.1 3	18 M	0512 4.7 143 1129 0.6 18 1739 5.3 162	3 W	0002 -0.2 -6 0540 5.5 168 1214 -0.3 -9 1815 6.5 198	18 Th	0019 0.6 18 0607 4.6 140 1208 0.6 18 1819 5.7 174
4 Sa	0421 5.4 165 1131 0.0 0 1715 5.1 155 2341 0.0 0	19 Su	0553 5.0 152 1212 0.3 9 1818 5.2 158	4 M	0502 5.6 171 1151 -0.3 -9 1745 6.1 186	19 Tu	0006 0.7 21 0600 4.8 146 1209 0.5 15 1821 5.5 168	4 Th	0057 -0.4 -12 0638 5.6 171 1306 -0.4 -12 1906 6.7 204	19 F	0106 0.4 12 0651 4.7 143 1252 0.5 15 1856 5.8 177
5 Su	0530 5.7 174 1222 -0.4 -12 1811 5.7 174	20 M	0038 0.5 15 0636 5.1 155 1252 0.2 6 1857 5.4 165	5 Tu	0019 -0.3 -9 0603 5.8 177 1242 -0.6 -18 1837 6.5 198	20 W	0051 0.5 15 0643 4.9 149 1248 0.4 12 1857 5.7 174	5 F	0152 -0.6 -18 0731 5.6 171 1358 -0.3 -9 1954 6.7 204	20 Sa	0152 0.2 6 0732 4.8 146 1338 0.5 15 1930 6.0 183
6 M	0038 -0.5 -15 0628 6.0 183 1312 -0.8 -24 1901 6.2 189	21 Tu	0121 0.3 9 0716 5.2 158 1330 0.2 6 1931 5.6 171	6 W	0115 -0.6 -18 0658 6.0 183 1332 -0.7 -21 1926 6.8 207	21 Th	0134 0.3 9 0722 4.9 149 1328 0.4 12 1928 5.8 177	6 Sa	0244 -0.6 -18 0822 5.5 168 1449 -0.2 -6 2042 6.6 201	21 Su	0237 0.1 3 0810 4.8 146 1424 0.4 12 ● 2004 6.0 183
7 Tu	0133 -0.8 -24 0719 6.2 189 1401 -1.0 -30 1949 6.5 198	22 W	0202 0.2 6 0752 5.2 158 1406 0.2 6 ● 2001 5.7 174	7 Th	0209 -0.9 -27 0748 6.0 183 1422 -0.7 -21 ● 2013 6.9 210	22 F	0217 0.2 6 0758 4.9 149 1408 0.4 12 ● 1956 5.9 180	7 Su	0334 -0.6 -18 0914 5.3 162 1537 0.0 0 2131 6.3 192	22 M	0321 -0.1 -3 0850 4.8 146 1509 0.4 12 2042 6.1 186
8 W	0226 -1.1 -34 0808 6.3 192 1448 -1.1 -34 2035 6.7 204	23 Th	0242 0.1 3 0825 5.1 155 1441 0.2 6 2027 5.7 174	8 F	0301 -0.9 -27 0838 5.8 177 1510 -0.6 -18 2101 6.7 204	23 Sa	0259 0.1 3 0832 4.8 146 1447 0.4 12 2024 5.9 180	8 M	0421 -0.4 -12 1009 5.1 155 1624 0.3 9 2224 5.9 180	23 Tu	0403 -0.1 -3 0933 4.8 146 1552 0.4 12 2124 6.0 183
9 Th	0317 -1.1 -34 0857 6.1 186 1534 -1.0 -30 2124 6.6 201	24 F	0320 0.1 3 0856 4.9 149 1514 0.3 9 2050 5.7 174	9 Sa	0350 -0.8 -24 0931 5.6 171 1557 -0.3 -9 2152 6.4 195	24 Su	0339 0.1 3 0906 4.7 143 1525 0.5 15 2055 5.9 180	9 Tu	0506 -0.1 -3 1107 4.9 149 1709 0.6 18 2320 5.6 171	24 W	0444 -0.1 -3 1024 4.9 149 1637 0.4 12 2214 5.9 180
10 F	0406 -1.0 -30 0949 5.8 177 1619 -0.7 -21 2215 6.4 195	25 Sa	0356 0.2 6 0925 4.8 146 1546 0.4 12 2116 5.6 171	10 Su	0439 -0.6 -18 1028 5.3 162 1644 0.1 3 2248 6.1 186	25 M	0418 0.2 6 0945 4.6 140 1603 0.6 18 2134 5.8 177	10 W	0552 0.2 6 1203 4.8 146 1757 1.0 30	25 Th	0527 -0.1 -3 1120 5.0 152 1724 0.5 15 2311 5.8 177
11 Sa	0456 -0.7 -21 1045 5.4 165 1705 -0.3 -9 2312 6.1 186	26 Su	0431 0.3 9 0959 4.6 140 1617 0.6 18 2151 5.5 168	11 M	0528 -0.2 -6 1128 5.0 152 1732 0.5 15 2346 5.7 174	26 Tu	0458 0.2 6 1032 4.6 140 1643 0.7 21 2221 5.7 174	11 Th	0014 5.3 162 0639 0.5 15 1255 4.8 146 1850 1.3 40	26 F	0613 0.0 0 1217 5.1 155 1819 0.7 21
12 Su	0547 -0.3 -9 1146 5.1 155 1754 0.2 6	27 M	0506 0.5 15 1041 4.5 137 1651 0.7 21 2235 5.5 168	12 Tu	0620 0.2 6 1228 4.8 146 1825 0.9 27	27 W	0540 0.3 9 1129 4.6 140 1727 0.8 24 2317 5.6 171	12 F	0104 5.0 152 0730 0.7 21 1344 4.8 146 1954 1.5 46	27 Sa	0011 5.6 171 0706 0.1 3 1311 5.3 162 1926 0.7 21
13 M	0010 5.7 174 0644 0.2 6 1246 4.8 146 1852 0.7 21	28 Tu	0546 0.6 18 1134 4.4 134 1731 0.9 27 2329 5.4 165	13 W	0043 5.3 162 0717 0.6 18 1323 4.7 143 1929 1.3 40	28 Th	0630 0.4 12 1228 4.7 143 1823 0.9 27	13 Sa	0152 4.8 146 0823 0.8 24 1430 4.8 146 ● 2058 1.5 46	28 Su	0110 5.5 168 0806 0.1 3 1405 5.5 168 ● 2040 0.7 21
14 Tu	0109 5.3 162 0749 0.5 15 1344 4.6 140 ● 2003 1.0 30	29 W	0639 0.8 24 1234 4.4 134 1825 1.1 34	14 Th	0138 5.1 155 0818 0.8 24 1416 4.7 143 ● 2039 1.4 43	29 F	0020 5.5 168 0730 0.5 15 1325 4.9 149 ● 1937 1.0 30	14 Su	0240 4.6 140 0914 0.9 27 1517 4.9 149 2155 1.3 40	29 M	0209 5.3 162 0907 0.1 3 1500 5.8 177 2148 0.5 15
15 W	0206 5.1 155 0856 0.7 21 1442 4.5 137 2114 1.1 34	30 Th	0030 5.3 162 0752 0.8 24 1336 4.5 137 ● 1945 1.1 34	15 F	0231 4.9 149 0916 0.8 24 1509 4.7 143 2141 1.3 40	30 Sa	0122 5.4 165 0835 0.4 12 1422 5.2 158 2056 0.8 24	15 M	0330 4.5 137 1000 0.8 24 1605 5.0 152 2245 1.1 34	30 Tu	0311 5.2 158 1004 0.0 0 1559 6.0 183 2249 0.2 6
						31 Su	0225 5.4 165 0936 0.2 6 1521 5.5 168 2204 0.5 15				

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Albany, New York, 2020

Times and Heights of High and Low Waters

October				November				December																																																																																			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height																																																																																
<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>																																																																																
1 Th 0339 5.3 162 1039 -0.3 -9 1608 5.2 158 2257 0.0 0	16 F 1030 -0.4 -12 1540 5.7 174 2255 -0.3 -9	1 Su 0434 4.9 149 1112 0.2 6 1645 5.5 168 2359 0.3 9	16 M 0432 5.2 158 1136 -0.2 -6 1649 6.0 183	1 Tu 0450 4.5 137 1114 0.4 12 1631 5.5 168	16 W 0005 -0.3 -9 0509 4.8 146 1204 -0.1 -3 1722 5.6 171	2 F 0419 5.2 158 1115 -0.2 -6 1646 5.2 158 2339 0.1 3	17 Sa 0359 5.5 168 1116 -0.4 -12 1625 5.8 177 2347 -0.3 -9	2 M 0512 4.7 143 1142 0.3 9 1706 5.5 168	17 Tu 0023 -0.2 -6 0526 5.0 152 1225 -0.1 -3 1740 5.8 177	2 W 0021 0.2 6 0528 4.4 134 1150 0.4 12 1651 5.6 171	17 Th 0055 -0.2 -6 0604 4.7 143 1253 0.0 0 1815 5.4 165	3 Sa 0458 5.0 152 1148 0.0 0 1720 5.2 158	18 Su 0449 5.4 165 1202 -0.4 -12 1712 5.9 180	3 Tu 0041 0.4 12 0550 4.5 137 1210 0.4 12 1718 5.6 171	18 W 0115 -0.1 -3 0623 4.9 149 1314 0.1 3 1836 5.6 171	3 Th 0104 0.2 6 0607 4.3 131 1229 0.4 12 1726 5.6 171	18 F 0144 -0.1 -3 0700 4.6 140 1343 0.2 6 1912 5.2 158	4 Su 0020 0.3 9 0536 4.8 146 1217 0.1 3 1749 5.2 158	19 M 0039 -0.3 -9 0543 5.2 158 1248 -0.2 -6 1802 5.8 177	4 W 0124 0.5 15 0627 4.4 134 1241 0.5 15 1748 5.6 171	19 Th 0208 0.0 0 0722 4.7 143 1406 0.3 9 1935 5.4 165	4 F 0148 0.3 9 0648 4.3 131 1313 0.5 15 1810 5.6 171	19 Sa 0233 0.0 0 0757 4.6 140 1435 0.4 12 2009 5.1 155	5 M 0101 0.4 12 0613 4.6 140 1242 0.2 6 1804 5.2 158	20 Tu 0133 -0.2 -6 0640 5.0 152 1337 -0.1 -3 1858 5.7 174	5 Th 0209 0.6 18 0706 4.3 131 1319 0.6 18 1830 5.7 174	20 F 0301 0.1 3 0823 4.7 143 1501 0.4 12 2036 5.3 162	5 Sa 0234 0.3 9 0735 4.4 134 1403 0.5 15 1901 5.5 168	20 Su 0322 0.1 3 0853 4.6 140 1528 0.5 15 2105 4.9 149	6 Tu 0144 0.5 15 0651 4.4 134 1306 0.3 9 1822 5.3 162	21 W 0228 0.0 0 0741 4.8 146 1429 0.1 3 1958 5.5 168	6 F 0257 0.6 18 0754 4.3 131 1406 0.6 18 1918 5.6 171	21 Sa 0355 0.2 6 0922 4.7 143 1557 0.6 18 2136 5.1 155	6 Su 0323 0.3 9 0829 4.5 137 1500 0.6 18 1958 5.4 165	21 M 0411 0.2 6 0947 4.6 140 1623 0.7 21 2200 4.8 146	7 W 0230 0.6 18 0730 4.2 128 1338 0.4 12 1859 5.4 165	22 Th 0324 0.1 3 0843 4.7 143 1525 0.3 9 2100 5.4 165	7 Sa 0349 0.7 21 0852 4.3 131 1503 0.8 24 2013 5.5 168	22 Su 0448 0.3 9 1019 4.7 143 1655 0.6 18 2234 5.0 152	7 M 0414 0.3 9 0926 4.6 140 1606 0.6 18 2104 5.2 158	22 Tu 0459 0.3 9 1041 4.7 143 1720 0.7 21 2255 4.7 143	8 Th 0320 0.7 21 0818 4.1 125 1421 0.5 15 1944 5.3 162	23 F 0422 0.2 6 0944 4.7 143 1623 0.4 12 2202 5.2 158	8 Su 0444 0.7 21 0955 4.4 134 1615 0.8 24 2116 5.3 162	23 M 0540 0.3 9 1115 4.8 146 1754 0.7 21 2331 5.0 152	8 Tu 0507 0.2 6 1025 4.8 146 1716 0.6 18 2222 5.1 155	23 W 0546 0.3 9 1133 4.8 146 1817 0.7 21 2350 4.6 140	9 F 0417 0.8 24 0921 4.0 122 1515 0.7 21 2037 5.2 158	24 Sa 0519 0.2 6 1045 4.7 143 1723 0.5 15 2304 5.2 158	9 M 0541 0.6 18 1057 4.5 137 1732 0.8 24 2236 5.2 158	24 Tu 0631 0.2 6 1210 5.0 152 1850 0.6 18	9 W 0602 0.1 3 1124 5.0 152 1824 0.5 15 2336 5.0 152	24 Th 0633 0.3 9 1224 4.9 149 1913 0.6 18	10 Sa 0516 0.8 24 1028 4.0 122 1625 0.8 24 2138 5.1 155	25 Su 0615 0.2 6 1143 4.8 146 1822 0.5 15	10 Tu 0637 0.4 12 1156 4.8 146 1843 0.7 21 2358 5.2 158	25 W 0025 5.0 152 0719 0.2 6 1301 5.1 155 1944 0.5 15	10 Th 0657 0.0 0 1221 5.2 158 1929 0.3 9	25 F 0043 4.5 137 0719 0.3 9 1312 5.0 152 2007 0.4 12	11 Su 0615 0.7 21 1132 4.1 125 1749 0.8 24 2300 5.0 152	26 M 0002 5.2 158 0708 0.1 3 1240 5.0 152 1919 0.4 12	11 W 0730 0.2 6 1251 5.1 155 1947 0.4 12	26 Th 0116 5.0 152 0803 0.1 3 1348 5.3 162 2036 0.4 12	11 F 0041 5.0 152 0751 -0.1 -3 1315 5.5 168 2029 0.0 0	26 Sa 0134 4.5 137 0803 0.3 9 1356 5.2 158 2058 0.2 6	12 M 0712 0.5 15 1230 4.4 134 1903 0.7 21	27 Tu 0057 5.2 158 0757 0.0 0 1331 5.2 158 2013 0.3 9	12 Th 0103 5.2 158 0822 0.0 0 1342 5.4 165 2047 0.2 6	27 F 0203 5.0 152 0846 0.1 3 1430 5.4 165 2124 0.2 6	12 Sa 0139 5.1 155 0843 -0.2 -6 1406 5.7 174 2127 -0.2 -6	27 Su 0221 4.5 137 0847 0.3 9 1436 5.3 162 2146 0.1 3	13 Tu 0025 5.1 155 0805 0.2 6 1323 4.7 143 2007 0.4 12	28 W 0146 5.3 162 0843 -0.1 -3 1418 5.3 162 2103 0.2 6	13 F 0159 5.3 162 0912 -0.2 -6 1429 5.7 174 2144 -0.1 -3	28 Sa 0248 4.9 149 0925 0.2 6 1509 5.5 168 2211 0.1 3	13 Su 0233 5.1 155 0935 -0.3 -9 1454 5.9 180 2221 -0.3 -9	28 M 0305 4.4 134 0929 0.3 9 1512 5.3 162 2232 0.0 0	14 W 0127 5.3 162 0856 0.0 0 1411 5.1 155 2106 0.1 3	29 Th 0232 5.3 162 0925 -0.1 -3 1501 5.5 168 2150 0.2 6	14 Sa 0251 5.4 165 1001 -0.2 -6 1515 5.9 180 2238 -0.2 -6	29 Su 0330 4.8 146 1003 0.2 6 1543 5.5 168 2255 0.1 3	14 M 0325 5.0 152 1025 -0.3 -9 1542 5.9 180 2314 -0.4 -12	29 Tu 0347 4.4 134 1011 0.3 9 1543 5.4 165 2316 -0.1 -3	15 Th 0220 5.4 165 0944 -0.2 -6 1456 5.4 165 2201 -0.1 -3	30 F 0314 5.2 158 1003 0.0 0 1539 5.5 168 2234 0.2 6	15 Su 0341 5.3 162 1049 -0.3 -9 1601 6.0 183 2331 -0.3 -9	30 M 0411 4.6 140 1039 0.3 9 1612 5.5 168 2339 0.1 3	15 Tu 0416 4.9 149 1115 -0.2 -6 1631 5.8 177	30 W 0428 4.3 131 1054 0.2 6 1608 5.4 165 2359 -0.1 -3	31 Sa 0355 5.1 155 1039 0.1 3 1615 5.5 168 2317 0.2 6	31 Th 0507 4.3 131 1136 0.2 6 1635 5.5 168
3 Sa 0458 5.0 152 1148 0.0 0 1720 5.2 158	18 Su 0449 5.4 165 1202 -0.4 -12 1712 5.9 180	3 Tu 0041 0.4 12 0550 4.5 137 1210 0.4 12 1718 5.6 171	18 W 0115 -0.1 -3 0623 4.9 149 1314 0.1 3 1836 5.6 171	3 Th 0104 0.2 6 0607 4.3 131 1229 0.4 12 1726 5.6 171	18 F 0144 -0.1 -3 0700 4.6 140 1343 0.2 6 1912 5.2 158	4 Su 0020 0.3 9 0536 4.8 146 1217 0.1 3 1749 5.2 158	19 M 0039 -0.3 -9 0543 5.2 158 1248 -0.2 -6 1802 5.8 177	4 W 0124 0.5 15 0627 4.4 134 1241 0.5 15 1748 5.6 171	19 Th 0208 0.0 0 0722 4.7 143 1406 0.3 9 1935 5.4 165	4 F 0148 0.3 9 0648 4.3 131 1313 0.5 15 1810 5.6 171	19 Sa 0233 0.0 0 0757 4.6 140 1435 0.4 12 2009 5.1 155	5 M 0101 0.4 12 0613 4.6 140 1242 0.2 6 1804 5.2 158	20 Tu 0133 -0.2 -6 0640 5.0 152 1337 -0.1 -3 1858 5.7 174	5 Th 0209 0.6 18 0706 4.3 131 1319 0.6 18 1830 5.7 174	20 F 0301 0.1 3 0823 4.7 143 1501 0.4 12 2036 5.3 162	5 Sa 0234 0.3 9 0735 4.4 134 1403 0.5 15 1901 5.5 168	20 Su 0322 0.1 3 0853 4.6 140 1528 0.5 15 2105 4.9 149	6 Tu 0144 0.5 15 0651 4.4 134 1306 0.3 9 1822 5.3 162	21 W 0228 0.0 0 0741 4.8 146 1429 0.1 3 1958 5.5 168	6 F 0257 0.6 18 0754 4.3 131 1406 0.6 18 1918 5.6 171	21 Sa 0355 0.2 6 0922 4.7 143 1557 0.6 18 2136 5.1 155	6 Su 0323 0.3 9 0829 4.5 137 1500 0.6 18 1958 5.4 165	21 M 0411 0.2 6 0947 4.6 140 1623 0.7 21 2200 4.8 146	7 W 0230 0.6 18 0730 4.2 128 1338 0.4 12 1859 5.4 165	22 Th 0324 0.1 3 0843 4.7 143 1525 0.3 9 2100 5.4 165	7 Sa 0349 0.7 21 0852 4.3 131 1503 0.8 24 2013 5.5 168	22 Su 0448 0.3 9 1019 4.7 143 1655 0.6 18 2234 5.0 152	7 M 0414 0.3 9 0926 4.6 140 1606 0.6 18 2104 5.2 158	22 Tu 0459 0.3 9 1041 4.7 143 1720 0.7 21 2255 4.7 143	8 Th 0320 0.7 21 0818 4.1 125 1421 0.5 15 1944 5.3 162	23 F 0422 0.2 6 0944 4.7 143 1623 0.4 12 2202 5.2 158	8 Su 0444 0.7 21 0955 4.4 134 1615 0.8 24 2116 5.3 162	23 M 0540 0.3 9 1115 4.8 146 1754 0.7 21 2331 5.0 152	8 Tu 0507 0.2 6 1025 4.8 146 1716 0.6 18 2222 5.1 155	23 W 0546 0.3 9 1133 4.8 146 1817 0.7 21 2350 4.6 140	9 F 0417 0.8 24 0921 4.0 122 1515 0.7 21 2037 5.2 158	24 Sa 0519 0.2 6 1045 4.7 143 1723 0.5 15 2304 5.2 158	9 M 0541 0.6 18 1057 4.5 137 1732 0.8 24 2236 5.2 158	24 Tu 0631 0.2 6 1210 5.0 152 1850 0.6 18	9 W 0602 0.1 3 1124 5.0 152 1824 0.5 15 2336 5.0 152	24 Th 0633 0.3 9 1224 4.9 149 1913 0.6 18	10 Sa 0516 0.8 24 1028 4.0 122 1625 0.8 24 2138 5.1 155	25 Su 0615 0.2 6 1143 4.8 146 1822 0.5 15	10 Tu 0637 0.4 12 1156 4.8 146 1843 0.7 21 2358 5.2 158	25 W 0025 5.0 152 0719 0.2 6 1301 5.1 155 1944 0.5 15	10 Th 0657 0.0 0 1221 5.2 158 1929 0.3 9	25 F 0043 4.5 137 0719 0.3 9 1312 5.0 152 2007 0.4 12	11 Su 0615 0.7 21 1132 4.1 125 1749 0.8 24 2300 5.0 152	26 M 0002 5.2 158 0708 0.1 3 1240 5.0 152 1919 0.4 12	11 W 0730 0.2 6 1251 5.1 155 1947 0.4 12	26 Th 0116 5.0 152 0803 0.1 3 1348 5.3 162 2036 0.4 12	11 F 0041 5.0 152 0751 -0.1 -3 1315 5.5 168 2029 0.0 0	26 Sa 0134 4.5 137 0803 0.3 9 1356 5.2 158 2058 0.2 6	12 M 0712 0.5 15 1230 4.4 134 1903 0.7 21	27 Tu 0057 5.2 158 0757 0.0 0 1331 5.2 158 2013 0.3 9	12 Th 0103 5.2 158 0822 0.0 0 1342 5.4 165 2047 0.2 6	27 F 0203 5.0 152 0846 0.1 3 1430 5.4 165 2124 0.2 6	12 Sa 0139 5.1 155 0843 -0.2 -6 1406 5.7 174 2127 -0.2 -6	27 Su 0221 4.5 137 0847 0.3 9 1436 5.3 162 2146 0.1 3	13 Tu 0025 5.1 155 0805 0.2 6 1323 4.7 143 2007 0.4 12	28 W 0146 5.3 162 0843 -0.1 -3 1418 5.3 162 2103 0.2 6	13 F 0159 5.3 162 0912 -0.2 -6 1429 5.7 174 2144 -0.1 -3	28 Sa 0248 4.9 149 0925 0.2 6 1509 5.5 168 2211 0.1 3	13 Su 0233 5.1 155 0935 -0.3 -9 1454 5.9 180 2221 -0.3 -9	28 M 0305 4.4 134 0929 0.3 9 1512 5.3 162 2232 0.0 0	14 W 0127 5.3 162 0856 0.0 0 1411 5.1 155 2106 0.1 3	29 Th 0232 5.3 162 0925 -0.1 -3 1501 5.5 168 2150 0.2 6	14 Sa 0251 5.4 165 1001 -0.2 -6 1515 5.9 180 2238 -0.2 -6	29 Su 0330 4.8 146 1003 0.2 6 1543 5.5 168 2255 0.1 3	14 M 0325 5.0 152 1025 -0.3 -9 1542 5.9 180 2314 -0.4 -12	29 Tu 0347 4.4 134 1011 0.3 9 1543 5.4 165 2316 -0.1 -3	15 Th 0220 5.4 165 0944 -0.2 -6 1456 5.4 165 2201 -0.1 -3	30 F 0314 5.2 158 1003 0.0 0 1539 5.5 168 2234 0.2 6	15 Su 0341 5.3 162 1049 -0.3 -9 1601 6.0 183 2331 -0.3 -9	30 M 0411 4.6 140 1039 0.3 9 1612 5.5 168 2339 0.1 3	15 Tu 0416 4.9 149 1115 -0.2 -6 1631 5.8 177	30 W 0428 4.3 131 1054 0.2 6 1608 5.4 165 2359 -0.1 -3	31 Sa 0355 5.1 155 1039 0.1 3 1615 5.5 168 2317 0.2 6	31 Th 0507 4.3 131 1136 0.2 6 1635 5.5 168												
5 M 0101 0.4 12 0613 4.6 140 1242 0.2 6 1804 5.2 158	20 Tu 0133 -0.2 -6 0640 5.0 152 1337 -0.1 -3 1858 5.7 174	5 Th 0209 0.6 18 0706 4.3 131 1319 0.6 18 1830 5.7 174	20 F 0301 0.1 3 0823 4.7 143 1501 0.4 12 2036 5.3 162	5 Sa 0234 0.3 9 0735 4.4 134 1403 0.5 15 1901 5.5 168	20 Su 0322 0.1 3 0853 4.6 140 1528 0.5 15 2105 4.9 149	6 Tu 0144 0.5 15 0651 4.4 134 1306 0.3 9 1822 5.3 162	21 W 0228 0.0 0 0741 4.8 146 1429 0.1 3 1958 5.5 168	6 F 0257 0.6 18 0754 4.3 131 1406 0.6 18 1918 5.6 171	21 Sa 0355 0.2 6 0922 4.7 143 1557 0.6 18 2136 5.1 155	6 Su 0323 0.3 9 0829 4.5 137 1500 0.6 18 1958 5.4 165	21 M 0411 0.2 6 0947 4.6 140 1623 0.7 21 2200 4.8 146	7 W 0230 0.6 18 0730 4.2 128 1338 0.4 12 1859 5.4 165	22 Th 0324 0.1 3 0843 4.7 143 1525 0.3 9 2100 5.4 165	7 Sa 0349 0.7 21 0852 4.3 131 1503 0.8 24 2013 5.5 168	22 Su 0448 0.3 9 1019 4.7 143 1655 0.6 18 2234 5.0 152	7 M 0414 0.3 9 0926 4.6 140 1606 0.6 18 2104 5.2 158	22 Tu 0459 0.3 9 1041 4.7 143 1720 0.7 21 2255 4.7 143	8 Th 0320 0.7 21 0818 4.1 125 1421 0.5 15 1944 5.3 162	23 F 0422 0.2 6 0944 4.7 143 1623 0.4 12 2202 5.2 158	8 Su 0444 0.7 21 0955 4.4 134 1615 0.8 24 2116 5.3 162	23 M 0540 0.3 9 1115 4.8 146 1754 0.7 21 2331 5.0 152	8 Tu 0507 0.2 6 1025 4.8 146 1716 0.6 18 2222 5.1 155	23 W 0546 0.3 9 1133 4.8 146 1817 0.7 21 2350 4.6 140	9 F 0417 0.8 24 0921 4.0 122 1515 0.7 21 2037 5.2 158	24 Sa 0519 0.2 6 1045 4.7 143 1723 0.5 15 2304 5.2 158	9 M 0541 0.6 18 1057 4.5 137 1732 0.8 24 2236 5.2 158	24 Tu 0631 0.2 6 1210 5.0 152 1850 0.6 18	9 W 0602 0.1 3 1124 5.0 152 1824 0.5 15 2336 5.0 152	24 Th 0633 0.3 9 1224 4.9 149 1913 0.6 18	10 Sa 0516 0.8 24 1028 4.0 122 1625 0.8 24 2138 5.1 155	25 Su 0615 0.2 6 1143 4.8 146 1822 0.5 15	10 Tu 0637 0.4 12 1156 4.8 146 1843 0.7 21 2358 5.2 158	25 W 0025 5.0 152 0719 0.2 6 1301 5.1 155 1944 0.5 15	10 Th 0657 0.0 0 1221 5.2 158 1929 0.3 9	25 F 0043 4.5 137 0719 0.3 9 1312 5.0 152 2007 0.4 12	11 Su 0615 0.7 21 1132 4.1 125 1749 0.8 24 2300 5.0 152	26 M 0002 5.2 158 0708 0.1 3 1240 5.0 152 1919 0.4 12	11 W 0730 0.2 6 1251 5.1 155 1947 0.4 12	26 Th 0116 5.0 152 0803 0.1 3 1348 5.3 162 2036 0.4 12	11 F 0041 5.0 152 0751 -0.1 -3 1315 5.5 168 2029 0.0 0	26 Sa 0134 4.5 137 0803 0.3 9 1356 5.2 158 2058 0.2 6	12 M 0712 0.5 15 1230 4.4 134 1903 0.7 21	27 Tu 0057 5.2 158 0757 0.0 0 1331 5.2 158 2013 0.3 9	12 Th 0103 5.2 158 0822 0.0 0 1342 5.4 165 2047 0.2 6	27 F 0203 5.0 152 0846 0.1 3 1430 5.4 165 2124 0.2 6	12 Sa 0139 5.1 155 0843 -0.2 -6 1406 5.7 174 2127 -0.2 -6	27 Su 0221 4.5 137 0847 0.3 9 1436 5.3 162 2146 0.1 3	13 Tu 0025 5.1 155 0805 0.2 6 1323 4.7 143 2007 0.4 12	28 W 0146 5.3 162 0843 -0.1 -3 1418 5.3 162 2103 0.2 6	13 F 0159 5.3 162 0912 -0.2 -6 1429 5.7 174 2144 -0.1 -3	28 Sa 0248 4.9 149 0925 0.2 6 1509 5.5 168 2211 0.1 3	13 Su 0233 5.1 155 0935 -0.3 -9 1454 5.9 180 2221 -0.3 -9	28 M 0305 4.4 134 0929 0.3 9 1512 5.3 162 2232 0.0 0	14 W 0127 5.3 162 0856 0.0 0 1411 5.1 155 2106 0.1 3	29 Th 0232 5.3 162 0925 -0.1 -3 1501 5.5 168 2150 0.2 6	14 Sa 0251 5.4 165 1001 -0.2 -6 1515 5.9 180 2238 -0.2 -6	29 Su 0330 4.8 146 1003 0.2 6 1543 5.5 168 2255 0.1 3	14 M 0325 5.0 152 1025 -0.3 -9 1542 5.9 180 2314 -0.4 -12	29 Tu 0347 4.4 134 1011 0.3 9 1543 5.4 165 2316 -0.1 -3	15 Th 0220 5.4 165 0944 -0.2 -6 1456 5.4 165 2201 -0.1 -3	30 F 0314 5.2 158 1003 0.0 0 1539 5.5 168 2234 0.2 6	15 Su 0341 5.3 162 1049 -0.3 -9 1601 6.0 183 2331 -0.3 -9	30 M 0411 4.6 140 1039 0.3 9 1612 5.5 168 2339 0.1 3	15 Tu 0416 4.9 149 1115 -0.2 -6 1631 5.8 177	30 W 0428 4.3 131 1054 0.2 6 1608 5.4 165 2359 -0.1 -3	31 Sa 0355 5.1 155 1039 0.1 3 1615 5.5 168 2317 0.2 6	31 Th 0507 4.3 131 1136 0.2 6 1635 5.5 168																								
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9 F 0417 0.8 24 0921 4.0 122 1515 0.7 21 2037 5.2 158	24 Sa 0519 0.2 6 1045 4.7 143 1723 0.5 15 2304 5.2 158	9 M 0541 0.6 18 1057 4.5 137 1732 0.8 24 2236 5.2 158	24 Tu 0631 0.2 6 1210 5.0 152 1850 0.6 18	9 W 0602 0.1 3 1124 5.0 152 1824 0.5 15 2336 5.0 152	24 Th 0633 0.3 9 1224 4.9 149 1913 0.6 18	10 Sa 0516 0.8 24 1028 4.0 122 1625 0.8 24 2138 5.1 155	25 Su 0615 0.2 6 1143 4.8 146 1822 0.5 15	10 Tu 0637 0.4 12 1156 4.8 146 1843 0.7 21 2358 5.2 158	25 W 0025 5.0 152 0719 0.2 6 1301 5.1 155 1944 0.5 15	10 Th 0657 0.0 0 1221 5.2 158 1929 0.3 9	25 F 0043 4.5 137 0719 0.3 9 1312 5.0 152 2007 0.4 12	11 Su 0615 0.7 21 1132 4.1 125 1749 0.8 24 2300 5.0 152	26 M 0002 5.2 158 0708 0.1 3 1240 5.0 152 1919 0.4 12	11 W 0730 0.2 6 1251 5.1 155 1947 0.4 12	26 Th 0116 5.0 152 0803 0.1 3 1348 5.3 162 2036 0.4 12	11 F 0041 5.0 152 0751 -0.1 -3 1315 5.5 168 2029 0.0 0	26 Sa 0134 4.5 137 0803 0.3 9 1356 5.2 158 2058 0.2 6	12 M 0712 0.5 15 1230 4.4 134 1903 0.7 21	27 Tu 0057 5.2 158 0757 0.0 0 1331 5.2 158 2013 0.3 9	12 Th 0103 5.2 158 0822 0.0 0 1342 5.4 165 2047 0.2 6	27 F 0203 5.0 152 0846 0.1 3 1430 5.4 165 2124 0.2 6	12 Sa 0139 5.1 155 0843 -0.2 -6 1406 5.7 174 2127 -0.2 -6	27 Su 0221 4.5 137 0847 0.3 9 1436 5.3 162 2146 0.1 3	13 Tu 0025 5.1 155 0805 0.2 6 1323 4.7 143 2007 0.4 12	28 W 0146 5.3 162 0843 -0.1 -3 1418 5.3 162 2103 0.2 6	13 F 0159 5.3 162 0912 -0.2 -6 1429 5.7 174 2144 -0.1 -3	28 Sa 0248 4.9 149 0925 0.2 6 1509 5.5 168 2211 0.1 3	13 Su 0233 5.1 155 0935 -0.3 -9 1454 5.9 180 2221 -0.3 -9	28 M 0305 4.4 134 0929 0.3 9 1512 5.3 162 2232 0.0 0	14 W 0127 5.3 162 0856 0.0 0 1411 5.1 155 2106 0.1 3	29 Th 0232 5.3 162 0925 -0.1 -3 1501 5.5 168 2150 0.2 6	14 Sa 0251 5.4 165 1001 -0.2 -6 1515 5.9 180 2238 -0.2 -6	29 Su 0330 4.8 146 1003 0.2 6 1543 5.5 168 2255 0.1 3	14 M 0325 5.0 152 1025 -0.3 -9 1542 5.9 180 2314 -0.4 -12	29 Tu 0347 4.4 134 1011 0.3 9 1543 5.4 165 2316 -0.1 -3	15 Th 0220 5.4 165 0944 -0.2 -6 1456 5.4 165 2201 -0.1 -3	30 F 0314 5.2 158 1003 0.0 0 1539 5.5 168 2234 0.2 6	15 Su 0341 5.3 162 1049 -0.3 -9 1601 6.0 183 2331 -0.3 -9	30 M 0411 4.6 140 1039 0.3 9 1612 5.5 168 2339 0.1 3	15 Tu 0416 4.9 149 1115 -0.2 -6 1631 5.8 177	30 W 0428 4.3 131 1054 0.2 6 1608 5.4 165 2359 -0.1 -3	31 Sa 0355 5.1 155 1039 0.1 3 1615 5.5 168 2317 0.2 6	31 Th 0507 4.3 131 1136 0.2 6 1635 5.5 168																																																
11 Su 0615 0.7 21 1132 4.1 125 1749 0.8 24 2300 5.0 152	26 M 0002 5.2 158 0708 0.1 3 1240 5.0 152 1919 0.4 12	11 W 0730 0.2 6 1251 5.1 155 1947 0.4 12	26 Th 0116 5.0 152 0803 0.1 3 1348 5.3 162 2036 0.4 12	11 F 0041 5.0 152 0751 -0.1 -3 1315 5.5 168 2029 0.0 0	26 Sa 0134 4.5 137 0803 0.3 9 1356 5.2 158 2058 0.2 6	12 M 0712 0.5 15 1230 4.4 134 1903 0.7 21	27 Tu 0057 5.2 158 0757 0.0 0 1331 5.2 158 2013 0.3 9	12 Th 0103 5.2 158 0822 0.0 0 1342 5.4 165 2047 0.2 6	27 F 0203 5.0 152 0846 0.1 3 1430 5.4 165 2124 0.2 6	12 Sa 0139 5.1 155 0843 -0.2 -6 1406 5.7 174 2127 -0.2 -6	27 Su 0221 4.5 137 0847 0.3 9 1436 5.3 162 2146 0.1 3	13 Tu 0025 5.1 155 0805 0.2 6 1323 4.7 143 2007 0.4 12	28 W 0146 5.3 162 0843 -0.1 -3 1418 5.3 162 2103 0.2 6	13 F 0159 5.3 162 0912 -0.2 -6 1429 5.7 174 2144 -0.1 -3	28 Sa 0248 4.9 149 0925 0.2 6 1509 5.5 168 2211 0.1 3	13 Su 0233 5.1 155 0935 -0.3 -9 1454 5.9 180 2221 -0.3 -9	28 M 0305 4.4 134 0929 0.3 9 1512 5.3 162 2232 0.0 0	14 W 0127 5.3 162 0856 0.0 0 1411 5.1 155 2106 0.1 3	29 Th 0232 5.3 162 0925 -0.1 -3 1501 5.5 168 2150 0.2 6	14 Sa 0251 5.4 165 1001 -0.2 -6 1515 5.9 180 2238 -0.2 -6	29 Su 0330 4.8 146 1003 0.2 6 1543 5.5 168 2255 0.1 3	14 M 0325 5.0 152 1025 -0.3 -9 1542 5.9 180 2314 -0.4 -12	29 Tu 0347 4.4 134 1011 0.3 9 1543 5.4 165 2316 -0.1 -3	15 Th 0220 5.4 165 0944 -0.2 -6 1456 5.4 165 2201 -0.1 -3	30 F 0314 5.2 158 1003 0.0 0 1539 5.5 168 2234 0.2 6	15 Su 0341 5.3 162 1049 -0.3 -9 1601 6.0 183 2331 -0.3 -9	30 M 0411 4.6 140 1039 0.3 9 1612 5.5 168 2339 0.1 3	15 Tu 0416 4.9 149 1115 -0.2 -6 1631 5.8 177	30 W 0428 4.3 131 1054 0.2 6 1608 5.4 165 2359 -0.1 -3	31 Sa 0355 5.1 155 1039 0.1 3 1615 5.5 168 2317 0.2 6	31 Th 0507 4.3 131 1136 0.2 6 1635 5.5 168																																																												
13 Tu 0025 5.1 155 0805 0.2 6 1323 4.7 143 2007 0.4 12	28 W 0146 5.3 162 0843 -0.1 -3 1418 5.3 162 2103 0.2 6	13 F 0159 5.3 162 0912 -0.2 -6 1429 5.7 174 2144 -0.1 -3	28 Sa 0248 4.9 149 0925 0.2 6 1509 5.5 168 2211 0.1 3	13 Su 0233 5.1 155 0935 -0.3 -9 1454 5.9 180 2221 -0.3 -9	28 M 0305 4.4 134 0929 0.3 9 1512 5.3 162 2232 0.0 0	14 W 0127 5.3 162 0856 0.0 0 1411 5.1 155 2106 0.1 3	29 Th 0232 5.3 162 0925 -0.1 -3 1501 5.5 168 2150 0.2 6	14 Sa 0251 5.4 165 1001 -0.2 -6 1515 5.9 180 2238 -0.2 -6	29 Su 0330 4.8 146 1003 0.2 6 1543 5.5 168 2255 0.1 3	14 M 0325 5.0 152 1025 -0.3 -9 1542 5.9 180 2314 -0.4 -12	29 Tu 0347 4.4 134 1011 0.3 9 1543 5.4 165 2316 -0.1 -3	15 Th 0220 5.4 165 0944 -0.2 -6 1456 5.4 165 2201 -0.1 -3	30 F 0314 5.2 158 1003 0.0 0 1539 5.5 168 2234 0.2 6	15 Su 0341 5.3 162 1049 -0.3 -9 1601 6.0 183 2331 -0.3 -9	30 M 0411 4.6 140 1039 0.3 9 1612 5.5 168 2339 0.1 3	15 Tu 0416 4.9 149 1115 -0.2 -6 1631 5.8 177	30 W 0428 4.3 131 1054 0.2 6 1608 5.4 165 2359 -0.1 -3	31 Sa 0355 5.1 155 1039 0.1 3 1615 5.5 168 2317 0.2 6	31 Th 0507 4.3 131 1136 0.2 6 1635 5.5 168																																																																								
15 Th 0220 5.4 165 0944 -0.2 -6 1456 5.4 165 2201 -0.1 -3	30 F 0314 5.2 158 1003 0.0 0 1539 5.5 168 2234 0.2 6	15 Su 0341 5.3 162 1049 -0.3 -9 1601 6.0 183 2331 -0.3 -9	30 M 0411 4.6 140 1039 0.3 9 1612 5.5 168 2339 0.1 3	15 Tu 0416 4.9 149 1115 -0.2 -6 1631 5.8 177	30 W 0428 4.3 131 1054 0.2 6 1608 5.4 165 2359 -0.1 -3	31 Sa 0355 5.1 155 1039 0.1 3 1615 5.5 168 2317 0.2 6	31 Th 0507 4.3 131 1136 0.2 6 1635 5.5 168																																																																																				

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean low water during lowest river stages which is the chart datum of soundings.

Sandy Hook, New Jersey, 2020

Times and Heights of High and Low Waters

April				May				June			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft	h m	ft	h m	ft	h m	ft	h m	ft	h m	ft
1 W	0038 4.6 140 0744 0.9 27 1334 3.9 119 1936 1.0 30	16 Th	0230 4.6 140 0916 0.7 21 1510 4.2 128 2135 1.0 30	1 F	0122 4.9 149 0827 0.6 18 1418 4.4 134 2038 0.8 24	16 Sa	0249 4.4 134 0926 0.7 21 1530 4.4 134 2154 1.1 34	1 M	0310 5.0 152 0952 -0.1 -3 1557 5.5 168 2226 0.1 3	16 Tu	0350 4.2 128 1006 0.6 18 1623 4.8 146 2254 0.8 24
2 Th	0142 4.7 143 0856 0.8 24 1438 4.0 122 2058 0.8 24	17 F	0329 4.5 137 1007 0.6 18 1608 4.3 131 2227 0.8 24	2 Sa	0228 5.0 152 0927 0.3 9 1520 4.8 146 2144 0.4 12	17 Su	0343 4.4 134 1010 0.6 18 1621 4.6 140 2242 0.9 27	2 Tu	0414 5.0 152 1044 -0.3 -9 1655 5.9 180 2323 -0.2 -6	17 W	0443 4.2 128 1049 0.6 18 1708 5.0 152 2340 0.6 18
3 F	0252 4.8 146 0957 0.4 12 1544 4.4 134 2204 0.4 12	18 Sa	0426 4.6 140 1052 0.5 15 1700 4.5 137 2314 0.6 18	3 Su	0334 5.1 155 1021 0.0 0 1621 5.2 158 2244 0.0 0	18 M	0436 4.4 134 1051 0.5 15 1707 4.9 149 2327 0.6 18	3 W	0514 5.1 155 1134 -0.4 -12 1748 6.2 189	18 Th	0533 4.3 131 1131 0.5 15 1750 5.3 162
4 Sa	0401 5.1 155 1050 0.0 0 1647 4.8 146 2302 0.0 0	19 Su	0517 4.7 143 1133 0.3 9 1746 4.8 146 2358 0.5 15	4 M	0438 5.3 162 1112 -0.3 -9 1718 5.7 174 2340 -0.3 -9	19 Tu	0524 4.5 137 1131 0.4 12 1749 5.1 155	4 Th	0018 -0.4 -12 0611 5.2 158 1225 -0.4 -12 1839 6.4 195	19 F	0026 0.4 12 0619 4.4 134 1215 0.4 12 1830 5.4 165
5 Su	0505 5.4 165 1141 -0.3 -9 1742 5.3 162 2358 -0.4 -12	20 M	0601 4.8 146 1212 0.2 6 1825 5.0 152	5 Tu	0537 5.5 168 1201 -0.6 -18 1810 6.1 186	20 W	0011 0.5 15 0608 4.6 140 1210 0.3 9 1827 5.3 162	5 F	0112 -0.5 -15 0704 5.2 158 1316 -0.3 -9 1928 6.4 195	20 Sa	0111 0.2 6 0702 4.4 134 1259 0.4 12 1908 5.6 171
6 M	0601 5.7 174 1230 -0.7 -21 1833 5.8 177	21 Tu	0041 0.3 9 0642 4.9 149 1250 0.2 6 1901 5.2 158	6 W	0035 -0.6 -18 0630 5.6 171 1251 -0.7 -21 1859 6.4 195	21 Th	0055 0.3 9 0649 4.6 140 1250 0.3 9 1902 5.4 165	6 Sa	0204 -0.6 -18 0755 5.1 155 1407 -0.2 -6 2016 6.2 189	21 Su	0156 0.1 3 0743 4.5 137 1344 0.4 12 1946 5.6 171
7 Tu	0052 -0.8 -24 0652 5.9 180 1319 -0.9 -27 1922 6.2 189	22 W	0122 0.2 6 0719 4.8 146 1327 0.2 6 1935 5.3 162	7 Th	0128 -0.8 -24 0722 5.6 171 1340 -0.7 -21 1948 6.5 198	22 F	0138 0.2 6 0729 4.6 140 1329 0.3 9 1935 5.5 168	7 Su	0253 -0.5 -15 0847 4.9 149 1455 0.0 0 2105 6.0 183	22 M	0239 0.0 0 0826 4.5 137 1429 0.3 9 2027 5.6 171
8 W	0145 -1.0 -30 0741 5.9 180 1406 -0.9 -27 2010 6.3 192	23 Th	0203 0.1 3 0756 4.8 146 1402 0.2 6 2006 5.3 162	8 F	0220 -0.8 -24 0812 5.4 165 1428 -0.5 -15 2036 6.4 195	23 Sa	0219 0.1 3 0807 4.5 137 1408 0.4 12 2008 5.5 168	8 M	0340 -0.4 -12 0940 4.8 146 1543 0.3 9 2156 5.7 174	23 Tu	0321 0.0 0 0912 4.5 137 1513 0.3 9 2112 5.6 171
9 Th	0237 -1.0 -30 0831 5.7 174 1453 -0.8 -24 2059 6.3 192	24 F	0241 0.1 3 0832 4.6 140 1437 0.3 9 2036 5.3 162	9 Sa	0310 -0.7 -21 0905 5.2 158 1516 -0.3 -9 2127 6.1 186	24 Su	0259 0.1 3 0847 4.4 134 1447 0.5 15 2043 5.4 165	9 Tu	0426 -0.1 -3 1035 4.6 140 1630 0.6 18 2248 5.3 162	24 W	0404 0.0 0 1002 4.6 140 1558 0.4 12 2202 5.5 168
10 F	0327 -0.9 -27 0923 5.4 165 1538 -0.6 -18 2150 6.1 186	25 Sa	0318 0.2 6 0909 4.4 134 1510 0.4 12 2106 5.2 158	10 Su	0359 -0.5 -15 1000 4.9 149 1603 0.1 3 2220 5.8 177	25 M	0339 0.2 6 0930 4.3 131 1526 0.5 15 2123 5.4 165	10 W	0512 0.2 6 1129 4.5 137 1719 0.9 27 2340 5.0 152	25 Th	0448 0.0 0 1055 4.6 140 1647 0.5 15 2257 5.4 165
11 Sa	0417 -0.6 -18 1018 5.1 155 1625 -0.2 -6 2244 5.8 177	26 Su	0355 0.3 9 0948 4.3 131 1543 0.6 18 2141 5.1 155	11 M	0449 -0.2 -6 1057 4.7 143 1653 0.5 15 2315 5.4 165	26 Tu	0419 0.3 9 1018 4.3 131 1607 0.6 18 2212 5.3 162	11 Th	0601 0.4 12 1220 4.4 134 1814 1.2 37	26 F	0535 0.1 3 1150 4.8 146 1744 0.6 18 2354 5.3 162
12 Su	0509 -0.2 -6 1116 4.7 143 1715 0.2 6 2340 5.4 165	27 M	0432 0.5 15 1033 4.1 125 1618 0.7 21 2225 5.0 152	12 Tu	0540 0.2 6 1154 4.5 137 1747 0.9 27	27 W	0503 0.4 12 1111 4.3 131 1653 0.7 21 2308 5.2 158	12 F	0029 4.8 146 0652 0.6 18 1309 4.4 134 1915 1.3 40	27 Sa	0629 0.1 3 1244 5.0 152 1850 0.7 21
13 M	0605 0.2 6 1214 4.4 134 1813 0.7 21	28 Tu	0514 0.6 18 1124 4.1 125 1700 0.9 27 2319 4.9 149	13 W	0009 5.1 155 0637 0.5 15 1249 4.3 131 1850 1.2 37	28 Th	0553 0.4 12 1206 4.4 134 1751 0.8 24	13 Sa	0117 4.5 137 0746 0.8 24 1357 4.4 134 2019 1.3 40	28 Su	0050 5.1 155 0729 0.1 3 1339 5.2 158 2002 0.6 18
14 Tu	0036 5.1 155 0709 0.5 15 1312 4.2 128 1922 1.0 30	29 W	0607 0.7 21 1219 4.1 125 1757 1.0 30	14 Th	0103 4.8 146 0738 0.7 21 1343 4.3 131 1959 1.3 40	29 F	0007 5.1 155 0653 0.5 15 1302 4.5 137 1904 0.9 27	14 Su	0206 4.4 134 0836 0.8 24 1445 4.5 137 2116 1.2 37	29 M	0148 5.0 152 0829 0.1 3 1435 5.4 165 2110 0.5 15
15 W	0132 4.8 146 0816 0.7 21 1410 4.1 125 2033 1.1 34	30 Th	0019 4.9 149 0717 0.8 24 1317 4.2 128 1917 1.0 30	15 F	0156 4.6 140 0836 0.7 21 1436 4.3 131 2101 1.2 37	30 Sa	0106 5.1 155 0758 0.4 12 1359 4.8 146 2020 0.7 21	15 M	0257 4.2 128 0923 0.7 21 1534 4.6 140 2207 1.0 30	30 Tu	0249 4.8 146 0926 0.0 0 1534 5.6 171 2211 0.2 6
						31 Su	0207 5.0 152 0858 0.2 6 1457 5.1 155 2126 0.4 12				

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Sandy Hook, New Jersey, 2020

Times and Heights of High and Low Waters

July				August				September							
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height		
h m	ft	cm	h m	ft	cm	h m	ft	cm	h m	ft	cm	h m	ft	cm	
1 W	0353 1020 1633 2308	4.7 -0.1 5.8 0.0	143 -3 177 0	16 Th	0401 1009 1623 2309	4.0 0.8 4.9 0.7	122 24 149 21	1 Sa	0541 1150 1806	4.6 0.2 5.8	140 6 177	16 Su	0518 1119 1731	4.4 0.5 5.5	134 15 168
2 Th	0456 1113 1729	4.7 -0.1 6.0	143 -3 183	17 F	0457 1056 1713 2356	4.1 0.7 5.2 0.5	125 21 158 15	2 Su	0038 0634 1241 1854	0.0 4.8 0.2 5.8	0 146 6 177	17 M	0015 0609 1211 1820	0.3 4.7 0.3 5.8	9 143 9 177
3 F	0002 0555 1205 1821	-0.2 4.8 -0.1 6.1	-6 146 -3 186	18 Sa	0548 1145 1759	4.3 0.5 5.4	131 15 165	3 M	0126 0722 1330 1938	-0.1 4.9 0.2 5.8	-3 149 6 177	18 Tu	0103 0656 1302 1907	0.0 5.0 0.0 6.0	0 152 0 183
4 Sa	0055 0648 1257 1910	-0.3 4.9 0.0 6.1	-9 149 0 186	19 Su	0044 0635 1234 1843	0.3 4.5 0.4 5.7	9 137 12 174	4 Tu	0210 0807 1416 2021	-0.1 4.9 0.3 5.7	-3 149 9 174	19 W	0149 0741 1353 1953	-0.3 5.3 -0.2 6.1	-9 162 -6 186
5 Su	0146 0739 1348 1957	-0.3 4.9 0.0 6.0	-9 149 0 183	20 M	0131 0720 1323 1927	0.0 4.7 0.2 5.8	0 143 6 177	5 W	0251 0851 1459 2104	-0.1 4.9 0.4 5.5	-3 149 12 168	20 Th	0234 0828 1443 2040	-0.5 5.5 -0.3 6.1	-15 168 -9 186
6 M	0234 0828 1436 2044	-0.3 4.8 0.2 5.8	-9 146 6 177	21 Tu	0216 0805 1411 2011	-0.1 4.8 0.1 5.9	-3 146 3 180	6 Th	0329 0935 1540 2146	0.0 4.8 0.5 5.2	0 146 15 158	21 F	0318 0918 1532 2131	-0.6 5.7 -0.3 5.9	-18 174 -9 180
7 Tu	0318 0917 1522 2131	-0.2 4.7 0.3 5.5	-6 143 9 168	22 W	0300 0851 1459 2058	-0.3 4.9 0.0 5.9	-9 149 0 180	7 F	0405 1018 1619 2229	0.2 4.7 0.7 4.9	6 143 21 149	22 Sa	0402 1010 1623 2224	-0.5 5.7 -0.2 5.6	-15 174 -6 171
8 W	0400 1007 1606 2219	-0.1 4.6 0.6 5.3	-3 140 18 162	23 Th	0343 0941 1547 2149	-0.3 5.0 0.0 5.8	-9 152 0 177	8 Sa	0440 1102 1700 2313	0.4 4.7 1.0 4.7	12 143 30 143	23 Su	0447 1105 1717 2321	-0.3 5.7 0.1 5.3	-9 174 3 162
9 Th	0441 1057 1649 2306	0.2 4.6 0.8 5.0	6 140 24 152	24 F	0427 1035 1637 2243	-0.3 5.2 0.1 5.6	-9 158 3 171	9 Su	0514 1143 1744 2357	0.6 4.6 1.2 4.4	18 140 37 134	24 M	0536 1200 1819	0.0 5.7 0.4	0 174 12
10 F	0521 1144 1736 2352	0.4 4.5 1.1 4.7	12 137 34 143	25 Sa	0512 1129 1732 2338	-0.2 5.3 0.3 5.3	-6 162 9 162	10 M	0551 1224 1838	0.8 4.6 1.4	24 140 43	25 Tu	0019 0633 1256 1928	5.0 0.3 5.6 0.6	152 9 171 18
11 Sa	0603 1229 1829	0.6 4.5 1.3	18 137 40	26 Su	0603 1223 1835	-0.1 5.4 0.5	-3 165 15	11 Tu	0042 0634 1306 1943	4.2 1.0 4.6 1.4	128 30 140 43	26 W	0118 0739 1354 2038	4.7 0.5 5.5 0.6	143 15 168 18
12 Su	0037 0648 1313 1930	4.5 0.8 4.5 1.4	137 24 137 43	27 M	0034 0700 1318 1945	5.1 0.1 5.4 0.6	155 3 165 18	12 W	0129 0731 1351 2048	4.0 1.1 4.6 1.3	122 34 140 40	27 Th	0220 0847 1454 2142	4.5 0.6 5.4 0.5	137 18 165 15
13 M	0123 0738 1357 2032	4.3 0.9 4.5 1.3	131 27 137 40	28 Tu	0132 0803 1414 2054	4.8 0.2 5.5 0.5	146 6 168 15	13 Th	0222 0833 1441 2145	3.9 1.1 4.7 1.1	119 34 143 34	28 F	0324 0948 1556 2238	4.4 0.6 5.4 0.4	134 18 165 12
14 Tu	0212 0830 1443 2128	4.1 0.9 4.6 1.2	125 27 140 37	29 W	0233 0904 1513 2156	4.6 0.3 5.6 0.4	140 9 171 12	14 F	0321 0932 1539 2237	3.9 1.0 4.9 0.9	119 30 149 27	29 Sa	0429 1044 1656 2329	4.5 0.5 5.4 0.3	137 15 165 9
15 W	0304 0920 1532 2220	4.0 0.9 4.8 1.0	122 27 146 30	30 Th	0337 1002 1614 2253	4.5 0.3 5.6 0.2	137 9 171 6	15 Sa	0422 1027 1637 2327	4.1 0.8 5.2 0.6	125 24 158 18	30 Su	0527 1136 1749	4.7 0.5 5.5	143 15 168
				31 F	0442 1057 1712 2347	4.5 0.2 5.7 0.1	137 6 174 3					31 M	0016 0617 1225 1835	0.2 4.9 0.4 5.6	6 149 12 171

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Atlantic City, New Jersey, 2020

Times and Heights of High and Low Waters

April				May				June			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
<small>h m ft cm</small>		<small>h m ft cm</small>		<small>h m ft cm</small>		<small>h m ft cm</small>		<small>h m ft cm</small>		<small>h m ft cm</small>	
1 W	0021 4.0 122 0713 0.7 21 1305 3.0 91 1900 0.7 21	16 Th	0226 4.0 122 0856 0.5 15 1511 3.3 101 2106 0.8 24	1 F	0103 4.3 131 0751 0.4 12 1400 3.4 104 1954 0.6 18	16 Sa	0241 3.8 116 0906 0.6 18 1526 3.6 110 2128 0.9 27	1 M	0254 4.3 131 0917 -0.1 -3 1542 4.6 140 2152 0.1 3	16 Tu	0336 3.5 107 0941 0.6 18 1610 4.1 125 2231 0.8 24
2 Th	0130 4.1 125 0820 0.6 18 1420 3.1 94 2012 0.5 15	17 F	0325 4.0 122 0950 0.5 15 1605 3.5 107 2202 0.7 21	2 Sa	0213 4.3 131 0851 0.2 6 1505 3.8 116 2103 0.3 9	17 Su	0334 3.8 116 0951 0.5 15 1612 3.8 116 2219 0.7 21	2 Tu	0356 4.3 131 1011 -0.3 -9 1636 5.0 152 2252 -0.2 -6	17 W	0424 3.5 107 1021 0.5 15 1652 4.3 131 2318 0.6 18
3 F	0242 4.3 131 0922 0.3 9 1527 3.4 104 2121 0.3 9	18 Sa	0417 4.0 122 1037 0.4 12 1650 3.7 113 2252 0.5 15	3 Su	0319 4.5 137 0947 -0.1 -3 1604 4.3 131 2207 0.0 0	18 M	0421 3.8 116 1032 0.5 15 1653 4.0 122 2306 0.6 18	3 W	0454 4.3 131 1103 -0.4 -12 1728 5.3 162 2349 -0.4 -12	18 Th	0510 3.5 107 1101 0.4 12 1733 4.6 140
4 Sa	0347 4.5 137 1018 0.0 0 1627 3.9 119 2224 -0.1 -3	19 Su	0502 4.1 125 1117 0.3 9 1730 3.9 119 2336 0.4 12	4 M	0419 4.6 140 1039 -0.3 -9 1657 4.7 143 2307 -0.3 -9	19 Tu	0505 3.8 116 1109 0.4 12 1731 4.3 131 2349 0.4 12	4 Th	0549 4.3 131 1153 -0.5 -15 1819 5.5 168	19 F	0001 0.4 12 0555 3.6 110 1141 0.3 9 1812 4.8 146
5 Su	0445 4.8 146 1110 -0.3 -9 1720 4.3 131 2322 -0.5 -15	20 M	0543 4.1 125 1153 0.2 6 1806 4.1 125	5 Tu	0515 4.7 143 1129 -0.6 -18 1748 5.2 158	20 W	0547 3.8 116 1144 0.3 9 1807 4.5 137	5 F	0043 -0.5 -15 0642 4.2 128 1243 -0.4 -12 1908 5.6 171	20 Sa	0044 0.3 9 0637 3.6 110 1221 0.2 6 1851 4.9 149
6 M	0539 5.0 152 1158 -0.6 -18 1810 4.8 146	21 Tu	0017 0.2 6 0621 4.1 125 1227 0.2 6 1841 4.3 131	6 W	0003 -0.6 -18 0608 4.7 143 1218 -0.7 -21 1838 5.4 165	21 Th	0029 0.3 9 0626 3.8 116 1219 0.3 9 1843 4.7 143	6 Sa	0135 -0.5 -15 0734 4.1 125 1332 -0.3 -9 1956 5.5 168	21 Su	0125 0.2 6 0720 3.6 110 1303 0.2 6 1931 5.0 152
7 Tu	0017 -0.8 -24 0630 5.1 155 1245 -0.8 -24 1859 5.1 155	22 W	0055 0.1 3 0658 4.1 125 1259 0.1 3 1914 4.5 137	7 Th	0056 -0.8 -24 0700 4.7 143 1306 -0.7 -21 1926 5.6 171	22 F	0109 0.2 6 0705 3.8 116 1254 0.2 6 1918 4.8 146	7 Su	0226 -0.5 -15 0825 4.0 122 1421 -0.1 -3 2044 5.3 162	22 M	0207 0.1 3 0802 3.6 110 1346 0.2 6 2012 5.1 155
8 W	0111 -0.9 -27 0720 5.0 152 1332 -0.9 -27 1947 5.3 162	23 Th	0133 0.1 3 0733 4.0 122 1330 0.2 6 1947 4.5 137	8 F	0149 -0.8 -24 0751 4.5 137 1354 -0.6 -18 2015 5.6 171	23 Sa	0148 0.2 6 0744 3.7 113 1329 0.2 6 1953 4.8 146	8 M	0317 -0.3 -9 0916 3.8 116 1511 0.1 3 2132 5.0 152	23 Tu	0250 0.0 0 0846 3.6 110 1431 0.2 6 2055 5.0 152
9 Th	0203 -1.0 -30 0809 4.9 149 1419 -0.8 -24 2035 5.4 165	24 F	0210 0.1 3 0809 3.9 119 1401 0.2 6 2019 4.6 140	9 Sa	0241 -0.7 -21 0842 4.3 131 1443 -0.3 -9 2104 5.4 165	24 Su	0227 0.2 6 0822 3.6 110 1406 0.3 9 2030 4.8 146	9 Tu	0407 -0.1 -3 1007 3.7 113 1602 0.4 12 2221 4.7 143	24 W	0335 0.0 0 0932 3.7 113 1520 0.2 6 2141 5.0 152
10 F	0256 -0.8 -24 0859 4.6 140 1507 -0.6 -18 2125 5.3 162	25 Sa	0247 0.2 6 0844 3.7 113 1433 0.3 9 2052 4.5 137	10 Su	0334 -0.5 -15 0934 4.0 122 1533 0.0 0 2154 5.1 155	25 M	0308 0.2 6 0902 3.5 107 1447 0.3 9 2110 4.8 146	10 W	0457 0.1 3 1100 3.5 107 1655 0.7 21 2311 4.4 134	25 Th	0422 0.0 0 1023 3.7 113 1614 0.3 9 2230 4.8 146
11 Sa	0350 -0.6 -18 0951 4.2 128 1557 -0.3 -9 2217 5.0 152	26 Su	0325 0.3 9 0920 3.5 107 1508 0.4 12 2128 4.5 137	11 M	0428 -0.2 -6 1029 3.7 113 1626 0.3 9 2247 4.8 146	26 Tu	0352 0.2 6 0946 3.4 104 1532 0.4 12 2153 4.7 143	11 Th	0548 0.3 9 1155 3.4 104 1751 0.9 27	26 F	0511 0.0 0 1118 3.8 116 1713 0.4 12 2324 4.6 140
12 Su	0447 -0.3 -9 1047 3.8 116 1650 0.1 3 2313 4.7 143	27 M	0407 0.4 12 0959 3.4 104 1548 0.5 15 2209 4.4 134	12 Tu	0524 0.1 3 1127 3.5 107 1724 0.6 18 2344 4.4 134	27 W	0439 0.3 9 1035 3.4 104 1623 0.5 15 2243 4.6 140	12 F	0003 4.1 125 0638 0.5 15 1251 3.4 104 1850 1.0 30	27 Sa	0604 0.0 0 1218 4.0 122 1818 0.5 15
13 M	0547 0.1 3 1148 3.5 107 1750 0.4 12	28 Tu	0454 0.5 15 1045 3.2 98 1636 0.6 18 2257 4.4 134	13 W	0622 0.3 9 1230 3.3 101 1825 0.8 24	28 Th	0531 0.3 9 1132 3.4 104 1722 0.6 18 2339 4.5 137	13 Sa	0056 3.9 119 0727 0.6 18 1346 3.5 107 1949 1.1 34	28 Su	0024 4.4 134 0658 0.0 0 1320 4.2 128 1926 0.4 12
14 Tu	0014 4.4 134 0650 0.3 9 1256 3.3 101 1854 0.7 21	29 W	0548 0.6 18 1141 3.2 98 1734 0.7 21 2356 4.3 131	14 Th	0044 4.1 125 0720 0.5 15 1334 3.3 101 1929 1.0 30	29 F	0627 0.3 9 1235 3.6 110 1829 0.6 18	14 Su	0151 3.7 113 0814 0.6 18 1438 3.6 110 2047 1.0 30	29 M	0127 4.2 128 0754 0.0 0 1422 4.5 137 2034 0.4 12
15 W	0120 4.1 125 0755 0.5 15 1406 3.2 98 2002 0.8 24	30 Th	0649 0.5 15 1249 3.2 98 1841 0.7 21	15 F	0144 3.9 119 0816 0.6 18 1433 3.4 104 2031 1.0 30	30 Sa	0042 4.4 134 0725 0.2 6 1341 3.8 116 1939 0.5 15	15 M	0244 3.6 110 0858 0.6 18 1526 3.9 119 2141 0.9 27	30 Tu	0233 4.0 122 0851 -0.1 -3 1522 4.7 143 2139 0.2 6
						31 Su	0148 4.3 131 0822 0.0 0 1443 4.2 128 2048 0.3 9				

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Breakwater Harbor, Delaware, 2020

Times and Heights of High and Low Waters

April				May				June			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm
1 W	0148 4.2 128 0815 0.6 18 1423 3.2 98 2014 0.6 18	16 Th	0338 4.2 128 1003 0.6 18 1619 3.5 107 2210 0.7 21	1 F	0227 4.5 137 0853 0.4 12 1509 3.7 113 2101 0.4 12	16 Sa	0353 4.0 122 1012 0.6 18 1631 3.7 113 2233 0.8 24	1 M	0409 4.4 134 1019 -0.1 -3 1650 4.7 143 2256 0.0 0	16 Tu	0444 3.6 110 1046 0.5 15 1716 4.2 128 2335 0.7 21
2 Th	0253 4.3 131 0920 0.6 18 1531 3.4 104 2122 0.4 12	17 F	0441 4.1 125 1059 0.5 15 1715 3.6 110 2309 0.6 18	2 Sa	0332 4.5 137 0953 0.2 6 1613 4.0 122 2208 0.2 6	17 Su	0447 3.9 119 1058 0.5 15 1719 3.9 119 2325 0.7 21	2 Tu	0509 4.3 131 1113 -0.3 -9 1746 5.0 152 2356 -0.2 -6	17 W	0533 3.5 107 1128 0.4 12 1801 4.4 134
3 F	0400 4.4 134 1024 0.3 9 1636 3.6 110 2228 0.2 6	18 Sa	0534 4.2 128 1146 0.5 15 1802 3.8 116 2359 0.5 15	3 Su	0435 4.6 140 1050 0.0 0 1712 4.4 134 2312 -0.1 -3	18 M	0535 3.9 119 1139 0.5 15 1801 4.2 128	3 W	0608 4.3 131 1204 -0.4 -12 1840 5.3 162	18 Th	0022 0.5 15 0620 3.5 107 1208 0.4 12 1843 4.6 140
4 Sa	0503 4.7 143 1121 0.1 3 1736 4.0 122 2330 -0.1 -3	19 Su	0620 4.2 128 1226 0.4 12 1841 4.0 122	4 M	0535 4.7 143 1142 -0.3 -9 1808 4.8 146	19 Tu	0012 0.5 15 0619 3.9 119 1216 0.4 12 1841 4.4 134	4 Th	0053 -0.4 -12 0703 4.2 128 1255 -0.4 -12 1931 5.5 168	19 F	0106 0.4 12 0706 3.5 107 1249 0.3 9 1926 4.8 146
5 Su	0602 4.9 149 1214 -0.2 -6 1831 4.5 137	20 M	0043 0.3 9 0700 4.2 128 1301 0.3 9 1917 4.3 131	5 Tu	0011 -0.4 -12 0631 4.7 143 1232 -0.5 -15 1900 5.2 158	20 W	0055 0.4 12 0700 3.8 116 1251 0.3 9 1918 4.6 140	5 F	0147 -0.5 -15 0757 4.2 128 1344 -0.4 -12 2021 5.6 171	20 Sa	0148 0.3 9 0750 3.6 110 1330 0.2 6 2007 5.0 152
6 M	0028 -0.5 -15 0656 5.1 155 1302 -0.5 -15 1922 4.9 149	21 Tu	0123 0.2 6 0737 4.2 128 1334 0.2 6 1952 4.4 134	6 W	0107 -0.6 -18 0724 4.7 143 1321 -0.6 -18 1950 5.5 168	21 Th	0135 0.3 9 0739 3.8 116 1326 0.3 9 1955 4.8 146	6 Sa	0239 -0.5 -15 0848 4.1 125 1433 -0.3 -9 2109 5.5 168	21 Su	0229 0.1 3 0833 3.6 110 1412 0.1 3 2050 5.1 155
7 Tu	0123 -0.7 -21 0747 5.1 155 1349 -0.7 -21 2011 5.2 158	22 W	0201 0.2 6 0812 4.1 125 1406 0.2 6 2026 4.6 140	7 Th	0201 -0.7 -21 0815 4.6 140 1408 -0.6 -18 2039 5.7 174	22 F	0214 0.2 6 0818 3.8 116 1402 0.2 6 2033 4.9 149	7 Su	0330 -0.4 -12 0938 4.0 122 1522 -0.1 -3 2158 5.4 165	22 M	0311 0.1 3 0917 3.7 113 1456 0.1 3 2133 5.1 155
8 W	0216 -0.9 -27 0836 5.1 155 1436 -0.8 -24 2100 5.4 165	23 Th	0237 0.1 3 0847 4.1 125 1437 0.2 6 2100 4.7 143	8 F	0253 -0.7 -21 0906 4.5 137 1456 -0.5 -15 2128 5.6 171	23 Sa	0252 0.2 6 0858 3.7 113 1439 0.2 6 2111 4.9 149	8 M	0420 -0.3 -9 1028 3.9 119 1612 0.1 3 2246 5.1 155	23 Tu	0354 0.0 0 1003 3.7 113 1542 0.1 3 2218 5.1 155
9 Th	0308 -0.9 -27 0925 4.9 149 1522 -0.7 -21 2148 5.5 168	24 F	0313 0.1 3 0922 3.9 119 1510 0.2 6 2135 4.7 143	9 Sa	0345 -0.6 -18 0956 4.3 131 1544 -0.3 -9 2217 5.5 168	24 Su	0331 0.1 3 0938 3.7 113 1517 0.2 6 2151 4.9 149	9 Tu	0510 -0.1 -3 1118 3.7 113 1702 0.3 9 2334 4.8 146	24 W	0439 0.0 0 1050 3.8 116 1631 0.1 3 2305 5.0 152
10 F	0400 -0.8 -24 1015 4.6 140 1609 -0.5 -15 2238 5.4 165	25 Sa	0350 0.2 6 0959 3.8 116 1544 0.3 9 2212 4.7 143	10 Su	0437 -0.4 -12 1047 4.0 122 1634 0.0 0 2307 5.2 158	25 M	0412 0.1 3 1020 3.6 110 1559 0.3 9 2234 4.9 149	10 W	0559 0.1 3 1209 3.6 110 1755 0.5 15	25 Th	0526 -0.1 -3 1140 3.8 116 1724 0.1 3 2355 4.9 149
11 Sa	0453 -0.5 -15 1106 4.3 131 1658 -0.2 -6 2330 5.2 158	26 Su	0429 0.2 6 1038 3.7 113 1622 0.4 12 2252 4.7 143	11 M	0531 -0.2 -6 1140 3.8 116 1726 0.2 6	26 Tu	0456 0.2 6 1105 3.6 110 1646 0.3 9 2320 4.8 146	11 Th	0024 4.5 137 0650 0.3 9 1300 3.6 110 1850 0.7 21	26 F	0616 -0.1 -3 1234 4.0 122 1822 0.2 6
12 Su	0549 -0.2 -6 1200 3.9 119 1750 0.1 3	27 M	0512 0.3 9 1120 3.5 107 1704 0.4 12 2336 4.6 140	12 Tu	0000 4.9 149 0626 0.1 3 1236 3.6 110 1823 0.5 15	27 W	0544 0.2 6 1155 3.6 110 1737 0.4 12	12 F	0114 4.3 131 0740 0.4 12 1354 3.6 110 1948 0.8 24	27 Sa	0048 4.7 143 0708 -0.1 -3 1331 4.1 125 1924 0.3 9
13 M	0025 4.9 149 0648 0.1 3 1259 3.6 110 1848 0.4 12	28 Tu	0559 0.4 12 1208 3.4 104 1753 0.5 15	13 W	0056 4.6 140 0724 0.4 12 1336 3.5 107 1924 0.7 21	28 Th	0011 4.7 143 0635 0.2 6 1249 3.6 110 1834 0.4 12	13 Sa	0206 4.0 122 0830 0.5 15 1447 3.7 113 2048 0.9 27	28 Su	0145 4.5 137 0801 -0.1 -3 1430 4.3 131 2029 0.3 9
14 Tu	0125 4.6 140 0752 0.4 12 1404 3.4 104 1953 0.7 21	29 W	0027 4.5 137 0653 0.5 15 1303 3.4 104 1849 0.6 18	14 Th	0154 4.3 131 0823 0.5 15 1438 3.5 107 2029 0.9 27	29 F	0106 4.6 140 0730 0.2 6 1348 3.8 116 1937 0.4 12	14 Su	0259 3.8 116 0918 0.6 18 1539 3.8 116 2148 0.9 27	29 M	0244 4.3 131 0857 -0.1 -3 1530 4.6 140 2136 0.2 6
15 W	0231 4.3 131 0859 0.5 15 1514 3.4 104 2102 0.8 24	30 Th	0124 4.5 137 0752 0.5 15 1404 3.5 107 1953 0.6 18	15 F	0255 4.1 125 0920 0.6 18 1537 3.6 110 2133 0.9 27	30 Sa	0205 4.5 137 0827 0.1 3 1450 4.0 122 2044 0.4 12	15 M	0352 3.7 113 1003 0.6 18 1629 4.0 122 2244 0.8 24	30 Tu	0346 4.1 125 0952 -0.1 -3 1630 4.8 146 2242 0.1 3
						31 Su	0306 4.4 134 0924 0.0 0 1551 4.3 131 2151 0.2 6				

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Breakwater Harbor, Delaware, 2020

Times and Heights of High and Low Waters

October				November				December			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft	h m	ft	h m	ft	h m	ft	h m	ft	h m	ft
1 Th	0152 0.3 9 0806 4.4 134 1406 0.3 9 2024 4.6 140	16 F	0119 -0.5 -15 0742 5.3 162 1347 -0.6 -18 2005 5.1 155	1 Su	0220 0.2 6 0844 4.7 143 1459 0.3 9 2104 3.9 119	16 M	0227 -0.7 -21 0901 5.7 174 1518 -0.7 -21 2127 4.3 131	1 Tu	0223 0.1 3 0856 4.8 146 1516 0.1 3 2119 3.5 107	16 W	0258 -0.6 -18 0935 5.4 165 1554 -0.6 -18 2201 3.8 116
2 F	0225 0.3 9 0840 4.5 137 1444 0.3 9 2058 4.5 137	17 Sa	0206 -0.6 -18 0831 5.6 171 1440 -0.7 -21 2055 5.0 152	2 M	0253 0.3 9 0919 4.8 146 1536 0.3 9 2141 3.8 116	17 Tu	0316 -0.6 -18 0952 5.6 171 1611 -0.5 -15 2219 4.1 125	2 W	0300 0.1 3 0934 4.7 143 1555 0.1 3 2159 3.4 104	17 Th	0348 -0.4 -12 1024 5.2 158 1645 -0.4 -12 2252 3.7 113
3 Sa	0257 0.3 9 0913 4.6 140 1521 0.4 12 2132 4.3 131	18 Su	0252 -0.6 -18 0921 5.7 174 1533 -0.6 -18 2146 4.7 143	3 Tu	0327 0.4 12 0956 4.7 143 1614 0.4 12 2219 3.6 110	18 W	0407 -0.3 -9 1044 5.4 165 1705 -0.3 -9 2314 3.8 116	3 Th	0339 0.1 3 1015 4.7 143 1636 0.2 6 2241 3.4 104	18 F	0439 -0.2 -6 1113 4.9 149 1735 -0.2 -6 2343 3.6 110
4 Su	0328 0.4 12 0948 4.6 140 1559 0.4 12 2207 4.1 125	19 M	0340 -0.5 -15 1012 5.7 174 1627 -0.4 -12 2238 4.4 134	4 W	0403 0.5 15 1035 4.7 143 1656 0.5 15 2301 3.5 107	19 Th	0500 0.0 0 1138 5.1 155 1802 -0.1 -3	4 F	0422 0.2 6 1058 4.6 140 1720 0.2 6 2328 3.3 101	19 Sa	0531 0.1 3 1204 4.5 137 1827 0.0 0
5 M	0401 0.5 15 1024 4.6 140 1638 0.6 18 2245 3.9 119	20 Tu	0430 -0.2 -6 1104 5.5 168 1724 -0.2 -6 2333 4.1 125	5 Th	0444 0.5 15 1118 4.6 140 1741 0.6 18 2347 3.4 104	20 F	0011 3.7 113 0557 0.3 9 1235 4.7 143 1901 0.2 6	5 Sa	0510 0.3 9 1145 4.5 137 1809 0.2 6	20 Su	0036 3.4 104 0627 0.3 9 1255 4.2 128 1919 0.2 6
6 Tu	0436 0.6 18 1103 4.6 140 1719 0.7 21 2326 3.7 113	21 W	0523 0.0 0 1201 5.2 158 1824 0.1 3	6 F	0530 0.6 18 1206 4.5 137 1832 0.6 18	21 Sa	0113 3.5 107 0659 0.5 15 1334 4.4 134 2002 0.3 9	6 Su	0019 3.3 101 0603 0.3 9 1236 4.4 134 1901 0.2 6	21 M	0132 3.4 104 0726 0.5 15 1348 3.9 119 2011 0.3 9
7 W	0514 0.7 21 1146 4.5 137 1806 0.8 24	22 Th	0034 3.8 116 0622 0.4 12 1302 4.9 149 1928 0.3 9	7 Sa	0040 3.3 101 0623 0.7 21 1301 4.4 134 1928 0.6 18	22 Su	0217 3.5 107 0806 0.7 21 1436 4.2 128 2101 0.4 12	7 M	0116 3.4 104 0703 0.4 12 1333 4.3 131 1956 0.1 3	22 Tu	0229 3.4 104 0829 0.7 21 1443 3.6 110 2102 0.3 9
8 Th	0011 3.5 107 0559 0.8 24 1235 4.4 134 1858 0.9 27	23 F	0140 3.7 113 0726 0.6 18 1407 4.7 143 2035 0.5 15	8 Su	0139 3.4 104 0725 0.7 21 1400 4.4 134 2027 0.5 15	23 M	0320 3.5 107 0912 0.7 21 1535 4.0 122 2155 0.4 12	8 Tu	0217 3.6 110 0809 0.3 9 1433 4.2 128 2053 0.0 0	23 W	0325 3.5 107 0932 0.7 21 1538 3.4 104 2151 0.4 12
9 F	0104 3.4 104 0651 0.9 27 1330 4.4 134 1957 0.9 27	24 Sa	0250 3.6 110 0836 0.7 21 1514 4.5 137 2139 0.5 15	9 M	0242 3.5 107 0831 0.6 18 1502 4.4 134 2126 0.3 9	24 Tu	0417 3.7 113 1015 0.7 21 1630 3.9 119 2243 0.4 12	9 W	0319 3.9 119 0917 0.2 6 1535 4.1 125 2149 -0.2 -6	24 Th	0418 3.7 113 1032 0.6 18 1632 3.3 101 2237 0.3 9
10 Sa	0204 3.4 104 0751 0.9 27 1430 4.4 134 2059 0.8 24	25 Su	0356 3.7 113 0944 0.7 21 1616 4.4 134 2236 0.5 15	10 Tu	0344 3.8 116 0937 0.4 12 1603 4.5 137 2221 0.0 0	25 W	0506 3.9 119 1110 0.6 18 1720 3.8 116 2325 0.3 9	10 Th	0419 4.3 131 1023 0.0 0 1636 4.1 125 2243 -0.4 -12	25 F	0507 3.9 119 1126 0.5 15 1723 3.3 101 2320 0.2 6
11 Su	0308 3.5 107 0856 0.8 24 1533 4.6 140 2159 0.6 18	26 M	0454 3.8 116 1045 0.7 21 1711 4.4 134 2324 0.4 12	11 W	0443 4.3 131 1041 0.1 3 1702 4.6 140 2313 -0.2 -6	26 Th	0550 4.1 125 1158 0.5 15 1804 3.8 116	11 F	0517 4.7 143 1126 -0.3 -9 1736 4.1 125 2336 -0.6 -18	26 Sa	0553 4.1 125 1214 0.4 12 1811 3.3 101
12 M	0410 3.7 113 1000 0.5 15 1634 4.7 143 2254 0.3 9	27 Tu	0543 4.0 122 1138 0.6 18 1759 4.4 134	12 Th	0538 4.7 143 1141 -0.2 -6 1758 4.7 143	27 F	0003 0.2 6 0629 4.3 131 1242 0.3 9 1845 3.7 113	12 Sa	0612 5.1 155 1224 -0.5 -15 1833 4.1 125	27 Su	0001 0.2 6 0635 4.3 131 1258 0.2 6 1855 3.3 101
13 Tu	0508 4.1 125 1101 0.2 6 1731 4.9 149 2345 0.0 0	28 W	0006 0.4 12 0625 4.2 128 1225 0.4 12 1840 4.3 131	13 F	0003 -0.5 -15 0631 5.1 155 1238 -0.5 -15 1852 4.7 143	28 Sa	0038 0.2 6 0706 4.5 137 1323 0.2 6 1924 3.7 113	13 Su	0027 -0.7 -21 0704 5.4 165 1320 -0.7 -21 1927 4.1 125	28 M	0040 0.1 3 0716 4.5 137 1338 0.1 3 1937 3.3 101
14 W	0602 4.5 137 1159 -0.1 -3 1824 5.1 155	29 Th	0042 0.3 9 0702 4.4 134 1306 0.3 9 1918 4.3 131	14 Sa	0051 -0.6 -18 0721 5.5 168 1332 -0.7 -21 1944 4.6 140	29 Su	0113 0.1 3 0742 4.6 140 1401 0.2 6 2002 3.6 110	14 M	0118 -0.8 -24 0755 5.5 168 1413 -0.7 -21 2020 4.0 122	29 Tu	0120 0.0 0 0756 4.6 140 1417 0.0 0 2018 3.4 104
15 Th	0033 -0.3 -9 0653 5.0 152 1253 -0.4 -12 1915 5.2 158	30 F	0116 0.2 6 0736 4.5 137 1345 0.3 9 1954 4.2 128	15 Su	0139 -0.7 -21 0811 5.7 174 1425 -0.7 -21 2035 4.5 137	30 M	0148 0.1 3 0819 4.7 143 1438 0.1 3 2040 3.6 110	15 Tu	0208 -0.7 -21 0845 5.5 168 1504 -0.7 -21 2111 3.9 119	30 W	0159 -0.1 -3 0836 4.7 143 1455 -0.1 -3 2058 3.4 104
		31 Sa	0148 0.2 6 0810 4.7 143 1422 0.2 6 2029 4.1 125						31 Th	0239 -0.2 -6 0916 4.8 146 1535 -0.2 -6 2140 3.4 104	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Reedy Point, Delaware, 2020

Times and Heights of High and Low Waters

October				November				December										
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height					
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm				
1 Th	0501	0.3	9		16 F	0445	-0.2	-6		1 Su	0539	0.3	9					
	1042	5.8	177			1018	6.4	195			1125	5.8	177					
	1716	0.4	12			1709	-0.3	-9			1815	5.3	9					
	2258	6.0	183			2240	6.4	195			2348	5.3	162					
2 F	0539	0.3	9		17 Sa	0533	-0.3	-9		2 M	0612	0.4	12		16 M	0555	-0.4	-12
	1120	5.8	177			1106	6.6	201			1156	5.8	177			1133	6.5	198
	1757	0.5	15			1803	-0.3	-9			1856	0.4	12			1840	-0.4	-12
	2336	5.8	177			2330	6.2	189								1933	-0.3	-9
3 Sa	0614	0.5	15		18 Su	0620	-0.3	-9		3 Tu	0023	5.1	155		2 W	0000	4.7	143
	1155	5.8	177			1154	6.6	201			0644	0.5	15			0621	0.2	6
	1837	0.6	18			1857	-0.2	-6			1225	5.7	174			1202	5.6	171
											1936	0.6	18			1918	0.2	6
4 Su	0013	5.6	171		19 M	0021	6.0	183		4 W	0058	4.9	149		3 Th	0036	4.6	140
	0646	0.6	18			0709	-0.2	-6			0715	0.5	15			0657	0.2	6
	1228	5.8	177			1244	6.5	198			1255	5.8	177			1235	5.6	171
	1917	0.7	21			1951	-0.1	-3			2019	0.7	21			2001	0.3	9
5 M	0049	5.4	165		20 Tu	0114	5.7	174		5 Th	0134	4.8	146		4 F	0114	4.6	140
	0716	0.7	21			0758	0.0	0			0750	0.6	18			0737	0.2	6
	1258	5.8	177			1336	6.4	195			1332	5.8	177			1314	5.7	174
	1956	0.8	24			2046	0.1	3			2104	0.7	21			2046	0.3	9
6 Tu	0124	5.3	162		21 W	0209	5.5	168		6 F	0217	4.7	143		5 Sa	0156	4.6	140
	0744	0.7	21			0851	0.2	6			0834	0.6	18			0823	0.3	9
	1328	5.8	177			1432	6.2	189			1417	5.7	174			1400	5.6	171
	2038	0.9	27			2142	0.2	6			2154	0.7	21			2133	0.3	9
7 W	0202	5.1	155		22 Th	0308	5.2	158		7 Sa	0309	4.7	143		6 Su	0246	4.6	140
	0817	0.8	24			0945	0.4	12			0928	0.6	18			0917	0.3	9
	1403	5.8	177			1532	5.9	180			1514	5.7	174			1455	5.6	171
	2125	1.0	30			2239	0.4	12			2249	0.7	21			2224	0.2	6
8 Th	0246	5.0	152		23 F	0411	5.1	155		8 Su	0410	4.7	143		7 M	0344	4.7	143
	0859	0.8	24			1043	0.5	15			1033	0.6	18			1019	0.3	9
	1448	5.8	177			1635	5.8	177			1620	5.7	174			1558	5.5	168
	2218	1.0	30			2336	0.4	12			2346	0.5	15			2317	0.1	3
9 F	0339	4.8	146		24 Sa	0513	5.1	155		9 M	0514	4.9	149		8 Tu	0446	4.9	149
	0952	0.8	24			1141	0.6	18			1143	0.5	15			1126	0.2	6
	1544	5.7	174			1738	5.7	174			1730	5.7	174			1705	5.4	165
	2316	1.0	30												1811	5.4	165	
10 Sa	0442	4.8	146		25 Su	0032	0.4	12		10 Tu	0044	0.4	12		9 W	0013	0.0	0
	1056	0.8	24			0614	5.1	155			0617	5.1	155			0549	5.1	155
	1651	5.7	174			1239	0.6	18			1252	0.4	12			1233	0.1	3
						1837	5.7	174			1836	5.7	174			1811	5.4	165
11 Su	0017	0.9	27		26 M	0125	0.3	9		11 W	0140	0.1	3		10 Th	0109	-0.2	-6
	0546	4.9	149			0710	5.3	162			0716	5.4	165			0649	5.4	165
	1205	0.8	24			1336	0.5	15			1357	0.1	3			1339	-0.1	-3
	1800	5.8	177			1932	5.7	174			1937	5.8	177			1914	5.4	165
12 M	0116	0.7	21		27 Tu	0216	0.2	6		12 Th	0233	-0.1	-3		11 F	0204	-0.4	-12
	0648	5.1	155			0802	5.5	168			0811	5.8	177			0747	5.7	174
	1313	0.6	18			1429	0.4	12			1458	-0.1	-3			1441	-0.3	-9
	1905	6.0	183			2022	5.8	177			2034	5.9	180			2012	5.4	165
13 Tu	0212	0.4	12		28 W	0302	0.2	6		13 F	0325	-0.3	-9		12 Sa	0258	-0.5	-15
	0745	5.4	165			0850	5.7	174			0904	6.1	186			0842	6.0	183
	1417	0.4	12			1519	0.3	9			1556	-0.3	-9			1540	-0.4	-12
	2003	6.2	189			2108	5.8	177			2128	5.9	180			2108	5.4	165
14 W	0305	0.2	6		29 Th	0345	0.1	3		14 Sa	0416	-0.4	-12		13 Su	0351	-0.6	-18
	0838	5.8	177			0933	5.8	177			0955	6.4	195			0935	6.1	186
	1517	0.1	3			1606	0.2	6			1653	-0.4	-12			1637	-0.6	-18
	2058	6.3	192			2151	5.7	174			2220	5.9	180			2202	5.3	162
15 Th	0356	-0.1	-3		30 F	0426	0.1	3		15 Su	0506	-0.5	-15		14 M	0443	-0.6	-18
	0929	6.1	186			1014	5.8	177			1044	6.5	198			1026	6.2	189
	1614	-0.1	-3			1651	0.2	6			1747	-0.5	-15			1731	-0.6	-18
	2150	6.4	195			2232	5.6	171			2311	5.7	174			2254	5.3	162
					31 Sa	0503	0.2	6										
						1051	5.8	177										
						1734	0.2	6										
						2311	5.4	165										
					31 Th	0603	-0.1	-3										
						1144	5.6	171										
						1858	-0.1	-3										

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Philadelphia, Pennsylvania, 2020

Times and Heights of High and Low Waters

July				August				September			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft	h m	ft	h m	ft	h m	ft	h m	ft	h m	ft
1 W	0431 0958 1646 2228 0.5 15 6.4 195 0.3 9 7.3 223	16 Th	0435 1013 1636 2236 0.8 24 5.7 174 0.6 18 6.7 204	1 Sa	0608 1132 1812 2354 0.4 12 6.1 186 0.4 12 7.2 219	16 Su	0551 1121 1748 2338 0.7 21 5.8 177 0.6 18 7.1 216	1 Tu	0023 0723 1252 1929 7.1 216 0.4 12 6.4 195 0.6 18	16 W	0703 1229 1913 0.5 15 6.7 204 0.4 12
2 Th	0530 1055 1740 2320 0.4 12 6.3 192 0.3 9 7.4 226	17 F	0529 1104 1727 2323 0.7 21 5.7 174 0.7 21 6.9 210	2 Su	0700 1223 1903 0.3 9 6.1 186 0.5 15	17 M	0643 1209 1842 0.6 18 6.0 183 0.5 15	2 W	0108 0806 1336 2015 7.0 213 0.5 15 6.4 195 0.7 21	17 Th	0048 0751 1316 2006 7.5 229 0.3 9 6.9 210 0.3 9
3 F	0627 1149 1833 0.3 9 6.2 189 0.4 12	18 Sa	0621 1152 1818 0.6 18 5.7 174 0.7 21	3 M	0042 0749 1312 1951 7.2 219 0.3 9 6.1 186 0.6 18	18 Tu	0025 0732 1256 1934 7.3 223 0.5 15 6.2 189 0.5 15	3 Th	0151 0847 1418 2058 6.9 210 0.6 18 6.4 195 0.8 24	18 F	0137 0839 1404 2059 7.5 229 0.2 6 7.1 216 0.3 9
4 Sa O	0011 0720 1241 1924 7.5 229 0.3 9 6.2 189 0.5 15	19 Su	0008 0711 1238 1907 7.0 213 0.6 18 5.8 177 0.6 18	4 Tu	0129 0835 1359 2038 7.1 216 0.4 12 6.1 186 0.7 21	19 W	0112 0820 1343 2025 7.4 226 0.3 9 6.3 192 0.4 12	4 F	0233 0926 1459 2141 6.8 207 0.7 21 6.4 195 0.9 27	19 Sa	0226 0926 1453 2152 7.4 226 0.2 6 7.3 223 0.3 9
5 Su	0100 0811 1332 2013 7.4 226 0.3 9 6.1 186 0.6 18	20 M	0051 0759 1324 1956 7.1 216 0.5 15 5.8 177 0.6 18	5 W	0214 0918 1445 2123 7.0 213 0.4 12 6.1 186 0.8 24	20 Th	0159 0907 1430 2117 7.4 226 0.2 6 6.5 198 0.3 9	5 Sa	0315 1003 1540 2223 6.6 201 0.7 21 6.4 195 0.9 27	20 Su	0317 1014 1543 2245 7.1 216 0.2 6 7.3 223 0.4 12
6 M	0148 0859 1421 2101 7.3 223 0.3 9 6.1 186 0.7 21	21 Tu	0135 0847 1409 2045 7.2 219 0.4 12 5.9 180 0.6 18	6 Th	0258 0959 1529 2207 6.8 207 0.5 15 6.1 186 0.8 24	21 F	0247 0954 1518 2209 7.3 223 0.2 6 6.7 204 0.3 9	6 Su	0357 1039 1620 2305 6.4 195 0.8 24 6.4 195 1.0 30	21 M	0410 1103 1636 2340 6.9 210 0.3 9 7.3 223 0.5 15
7 Tu	0235 0946 1510 2148 7.1 216 0.4 12 6.0 183 0.8 24	22 W	0219 0933 1454 2134 7.2 219 0.3 9 6.0 183 0.5 15	7 F	0342 1039 1614 2250 6.7 204 0.6 18 6.1 186 0.9 27	22 Sa	0337 1041 1608 2302 7.2 219 0.1 3 6.8 207 0.4 12	7 M	0441 1115 1701 2350 6.2 189 0.8 24 6.4 195 1.0 30	22 Tu	0505 1154 1732 6.6 201 0.4 12 7.2 219
8 W	0322 1030 1558 2234 7.0 213 0.4 12 6.0 183 0.9 27	23 Th	0305 1020 1542 2225 7.2 219 0.2 6 6.2 189 0.5 15	8 Sa	0427 1118 1658 2335 6.5 198 0.6 18 6.1 186 0.9 27	23 Su	0429 1129 1701 2358 6.9 210 0.1 3 6.9 210 0.4 12	8 Tu	0527 1153 1746 6.0 183 0.8 24 6.4 195	23 W	0036 0604 1247 1830 0.6 18 6.3 192 0.5 15 7.1 216
9 Th	0410 1113 1647 2320 6.8 207 0.5 15 6.0 183 0.9 27	24 F	0354 1106 1632 2318 7.1 216 0.1 3 6.3 192 0.5 15	9 Su	0514 1156 1744 0.9 27 0.6 18 6.2 189	24 M	0525 1219 1756 6.7 204 0.2 6 7.0 213	9 W	0039 0617 1235 1834 1.1 34 5.8 177 0.8 24 6.5 198	24 Th	0133 0704 1343 1930 0.7 21 6.1 186 0.6 18 7.0 213
10 F	0459 1156 1736 6.6 201 0.5 15 6.0 183	25 Sa	0447 1154 1725 7.0 213 0.1 3 6.5 198	10 M	0022 0603 1237 1832 0.9 27 6.1 186 0.6 18 6.2 189	25 Tu	0055 0623 1311 1854 0.5 15 6.4 195 0.3 9 7.0 213	10 Th	0132 0710 1325 1928 1.1 34 5.7 174 0.9 27 6.5 198	25 F	0232 0805 1440 2031 0.7 21 6.1 186 0.7 21 6.9 210
11 Sa	0007 0549 1238 1826 0.9 27 6.4 195 0.5 15 6.1 186	26 Su	0014 0543 1244 1820 0.5 15 6.8 207 0.1 3 6.6 201	11 Tu	0112 0655 1320 1922 1.0 30 5.9 180 0.6 18 6.3 192	26 W	0154 0723 1406 1953 0.6 18 6.2 189 0.4 12 7.0 213	11 F	0228 0807 1422 2024 1.2 37 5.6 171 0.9 27 6.6 201	26 Sa	0330 0904 1538 2129 0.7 21 6.1 186 0.7 21 6.9 210
12 Su O	0056 0641 1322 1916 0.9 27 6.2 189 0.5 15 6.2 189	27 M	0112 0641 1336 1917 0.5 15 6.5 198 0.1 3 6.8 207	12 W	0206 0749 1409 2014 1.0 30 5.7 174 0.7 21 6.4 195	27 Th	0254 0824 1503 2053 0.6 18 6.1 186 0.5 15 7.0 213	12 Sa	0327 0903 1523 2121 1.1 34 5.7 174 0.9 27 6.8 207	27 Su	0426 1001 1634 2224 0.6 18 6.2 189 0.7 21 6.9 210
13 M	0148 0734 1407 2007 0.9 27 6.0 183 0.5 15 6.3 192	28 Tu	0211 0742 1430 2015 0.6 18 6.3 192 0.2 6 6.9 210	13 Th	0303 0844 1502 2106 1.0 30 5.6 171 0.7 21 6.5 198	28 F	0353 0924 1601 2150 0.6 18 6.1 186 0.5 15 7.0 213	13 Su	0425 0958 1624 2216 1.0 30 5.9 180 0.8 24 7.0 213	28 M	0519 1054 1728 2314 0.5 15 6.4 195 0.6 18 7.0 213
14 Tu	0243 0828 1455 2058 0.9 27 5.9 180 0.6 18 6.4 195	29 W	0313 0842 1526 2113 0.6 18 6.2 189 0.3 9 7.0 213	14 F	0400 0938 1558 2158 1.0 30 5.6 171 0.7 21 6.7 204	29 Sa	0451 1021 1657 2245 0.6 18 6.1 186 0.5 15 7.1 216	14 M	0520 1050 1722 2308 0.8 24 6.1 186 0.7 21 7.2 219	29 Tu	0608 1143 1818 0.5 15 6.5 198 0.6 18
15 W	0339 0921 1545 2148 0.9 27 5.8 177 0.6 18 6.6 201	30 Th	0413 0941 1623 2209 0.5 15 6.1 186 0.3 9 7.1 216	15 Sa	0457 1030 1654 2249 0.9 27 5.7 174 0.7 21 6.9 210	30 Su	0545 1114 1751 2336 0.5 15 6.2 189 0.5 15 7.1 216	15 Tu	0613 1140 1818 2359 0.6 18 6.4 195 0.5 15 7.4 226	30 W	0001 0653 1228 1906 7.0 213 0.5 15 6.6 201 0.6 18
		31 F	0512 1037 1718 2303 0.4 12 6.1 186 0.4 12 7.2 219			31 M	0636 1205 1842 0.4 12 6.3 192 0.6 18				

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Philadelphia, Pennsylvania, 2020

Times and Heights of High and Low Waters

October				November				December																																																																																							
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height																																																																																				
h m	ft	h m	ft	h m	ft	h m	ft	h m	ft	h m	ft																																																																																				
1 Th 0045 6.9 210 0735 0.5 15 1311 6.7 204 1951 0.7 21	16 F 0024 7.3 223 0722 0.2 6 1251 7.3 223 1947 0.2 6	1 Su 0143 6.2 189 0819 0.6 18 1401 6.7 204 2053 0.6 18	16 M 0144 6.5 198 0834 -0.1 -3 1405 7.4 226 2116 -0.1 -3	1 Tu 0159 5.4 165 0828 0.2 6 1410 6.3 192 2113 0.2 6	16 W 0216 5.7 174 0901 -0.4 -12 1436 6.7 204 2147 -0.4 -12	2 F 0127 6.8 207 0815 0.7 21 1351 6.7 204 2034 0.8 24	17 Sa 0114 7.3 223 0811 0.1 3 1339 7.5 229 2041 0.1 3	2 M 0224 6.0 183 0856 0.7 21 1437 6.6 201 2135 0.7 21	17 Tu 0235 6.3 192 0924 0.0 0 1456 7.2 219 2208 0.0 0	2 W 0239 5.3 162 0908 0.3 9 1446 6.3 192 2157 0.2 6	17 Th 0307 5.5 168 0951 -0.3 -9 1526 6.5 198 2236 -0.4 -12	3 Sa 0208 6.6 201 0852 0.8 24 1429 6.7 204 2116 0.8 24	18 Su 0204 7.1 216 0859 0.1 3 1428 7.6 232 2134 0.2 6	3 Tu 0303 5.8 177 0933 0.7 21 1512 6.6 201 2218 0.7 21	18 W 0328 6.1 186 1014 0.0 0 1548 7.0 213 2259 0.0 0	3 Th 0320 5.2 158 0948 0.2 6 1523 6.3 192 2241 0.2 6	18 F 0359 5.4 165 1040 -0.2 -6 1618 6.2 189 2324 -0.3 -9	4 Su 0249 6.4 195 0928 0.9 27 1507 6.7 204 2158 0.9 27	19 M 0256 6.8 207 0948 0.2 6 1519 7.5 229 2227 0.2 6	4 W 0343 5.7 174 1010 0.7 21 1546 6.6 201 2301 0.8 24	19 Th 0423 5.8 177 1104 0.2 6 1642 6.8 207 2351 0.1 3	4 F 0401 5.1 155 1031 0.2 6 1602 6.3 192 2326 0.2 6	19 Sa 0452 5.3 162 1130 -0.2 -6 1710 6.0 183	5 M 0329 6.2 189 1003 0.9 27 1543 6.6 201 2240 1.0 30	20 Tu 0349 6.6 201 1038 0.3 9 1611 7.4 226 2321 0.4 12	5 Th 0425 5.5 168 1049 0.7 21 1623 6.5 198 2347 0.8 24	20 F 0519 5.7 174 1156 0.3 9 1738 6.5 198	5 Sa 0446 5.1 155 1118 0.2 6 1649 6.2 189	20 Su 0012 -0.3 -9 0545 5.2 158 1220 -0.1 -3 1804 5.8 177	6 Tu 0410 6.0 183 1038 0.9 27 1620 6.6 201 2324 1.0 30	21 W 0445 6.3 192 1129 0.4 12 1707 7.2 219	6 F 0511 5.4 165 1134 0.7 21 1709 6.5 198	21 Sa 0043 0.2 6 0616 5.6 171 1250 0.3 9 1836 6.3 192	6 Su 0014 0.2 6 0536 5.1 155 1211 0.1 3 1745 6.2 189	21 M 0100 -0.2 -6 0639 5.2 158 1312 0.0 0 1858 5.6 171	7 W 0454 5.9 180 1116 0.9 27 1700 6.6 201	22 Th 0015 0.5 15 0543 6.1 186 1222 0.5 15 1805 6.9 210	7 Sa 0037 0.8 24 0602 5.4 165 1227 0.7 21 1807 6.5 198	22 Su 0135 0.2 6 0713 5.6 171 1345 0.4 12 1933 6.1 186	7 M 0104 0.1 3 0631 5.3 162 1309 0.1 3 1846 6.1 186	22 Tu 0148 -0.2 -6 0733 5.3 162 1406 0.0 0 1953 5.5 168	8 Th 0011 1.1 34 0541 5.7 174 1159 0.9 27 1746 6.6 201	23 F 0110 0.6 18 0642 6.0 183 1317 0.6 18 1905 6.7 204	8 Su 0130 0.7 21 0659 5.5 168 1326 0.7 21 1912 6.5 198	23 M 0227 0.2 6 0810 5.6 171 1441 0.4 12 2030 6.0 183	8 Tu 0157 0.0 0 0729 5.5 168 1411 0.1 3 1949 6.1 186	23 W 0236 -0.2 -6 0826 5.4 165 1501 0.0 0 2047 5.3 162	9 F 0102 1.1 34 0634 5.6 171 1251 0.9 27 1843 6.6 201	24 Sa 0206 0.6 18 0742 5.9 180 1414 0.7 21 2005 6.6 201	9 M 0226 0.6 18 0758 5.6 171 1430 0.6 18 2015 6.5 198	24 Tu 0319 0.1 3 0904 5.8 177 1536 0.3 9 2124 6.0 183	9 W 0252 -0.1 -3 0828 5.7 174 1515 0.1 3 2050 6.0 183	24 Th 0325 -0.2 -6 0918 5.5 168 1556 -0.1 -3 2141 5.3 162	10 Sa 0158 1.1 34 0731 5.6 171 1350 0.9 27 1945 6.7 204	25 Su 0301 0.6 18 0840 6.0 183 1511 0.7 21 2102 6.6 201	10 Tu 0322 0.5 15 0856 5.9 180 1535 0.5 15 2116 6.6 201	25 W 0408 0.1 3 0956 6.0 183 1631 0.2 6 2216 6.0 183	10 Th 0348 -0.2 -6 0925 6.1 186 1617 -0.1 -3 2149 6.0 183	25 F 0414 -0.2 -6 1009 5.6 171 1650 -0.1 -3 2232 5.2 158	11 Su 0255 1.1 34 0829 5.7 174 1454 0.9 27 2046 6.8 207	26 M 0355 0.5 15 0936 6.1 186 1608 0.6 18 2157 6.6 201	11 W 0418 0.3 9 0952 6.3 192 1637 0.3 9 2214 6.7 204	26 Th 0456 0.0 0 1045 6.1 186 1723 0.2 6 2305 5.9 180	11 F 0443 -0.4 -12 1020 6.4 195 1718 -0.2 -6 2246 6.0 183	26 Sa 0502 -0.2 -6 1057 5.8 177 1742 -0.2 -6 2321 5.2 158	12 M 0353 0.9 27 0926 6.0 183 1557 0.8 24 2145 7.0 213	27 Tu 0446 0.4 12 1028 6.3 192 1701 0.5 15 2247 6.6 201	12 Th 0512 0.1 3 1045 6.7 204 1737 0.2 6 2308 6.8 207	27 F 0542 0.0 0 1131 6.3 192 1813 0.1 3 2351 5.9 180	12 Sa 0537 -0.5 -15 1113 6.7 204 1816 -0.4 -12 2340 6.0 183	27 Su 0549 -0.3 -9 1142 5.9 180 1832 -0.3 -9	13 Tu 0449 0.7 21 1020 6.3 192 1658 0.6 18 2240 7.2 219	28 W 0534 0.3 9 1117 6.5 198 1752 0.5 15 2335 6.6 201	13 F 0604 0.0 0 1137 7.0 213 1834 0.0 0	28 Sa 0625 0.1 3 1214 6.4 195 1900 0.1 3	13 Su 0629 -0.5 -15 1205 6.8 207 1912 -0.5 -15	28 M 0008 5.1 155 0635 -0.2 -6 1226 5.9 180 1920 -0.3 -9	14 W 0542 0.5 15 1112 6.7 204 1757 0.4 12 2333 7.3 223	29 Th 0619 0.3 9 1201 6.6 201 1840 0.4 12	14 Sa 0001 6.7 204 0654 -0.1 -3 1227 7.3 223 1929 -0.1 -3	29 Su 0036 5.8 177 0707 0.1 3 1255 6.4 195 1945 0.1 3	14 M 0033 5.9 180 0721 -0.5 -15 1256 6.9 210 2005 -0.5 -15	29 Tu 0052 5.1 155 0719 -0.2 -6 1307 6.0 183 2006 -0.3 -9	15 Th 0633 0.3 9 1202 7.0 213 1853 0.3 9	30 F 0019 6.5 198 0701 0.4 12 1243 6.7 204 1926 0.5 15	15 Su 0052 6.6 201 0744 -0.2 -6 1316 7.4 226 2023 -0.2 -6	30 M 0118 5.6 171 0748 0.2 6 1333 6.3 192 2030 0.1 3	15 Tu 0125 5.8 177 0812 -0.5 -15 1346 6.8 207 2057 -0.5 -15	30 W 0135 5.0 152 0803 -0.2 -6 1346 6.0 183 2050 -0.3 -9		31 Sa 0102 6.4 195 0741 0.5 15 1323 6.7 204 2010 0.5 15				31 Th 0216 4.9 149 0846 -0.3 -9 1425 6.0 183 2135 -0.3 -9
2 F 0127 6.8 207 0815 0.7 21 1351 6.7 204 2034 0.8 24	17 Sa 0114 7.3 223 0811 0.1 3 1339 7.5 229 2041 0.1 3	2 M 0224 6.0 183 0856 0.7 21 1437 6.6 201 2135 0.7 21	17 Tu 0235 6.3 192 0924 0.0 0 1456 7.2 219 2208 0.0 0	2 W 0239 5.3 162 0908 0.3 9 1446 6.3 192 2157 0.2 6	17 Th 0307 5.5 168 0951 -0.3 -9 1526 6.5 198 2236 -0.4 -12	3 Sa 0208 6.6 201 0852 0.8 24 1429 6.7 204 2116 0.8 24	18 Su 0204 7.1 216 0859 0.1 3 1428 7.6 232 2134 0.2 6	3 Tu 0303 5.8 177 0933 0.7 21 1512 6.6 201 2218 0.7 21	18 W 0328 6.1 186 1014 0.0 0 1548 7.0 213 2259 0.0 0	3 Th 0320 5.2 158 0948 0.2 6 1523 6.3 192 2241 0.2 6	18 F 0359 5.4 165 1040 -0.2 -6 1618 6.2 189 2324 -0.3 -9	4 Su 0249 6.4 195 0928 0.9 27 1507 6.7 204 2158 0.9 27	19 M 0256 6.8 207 0948 0.2 6 1519 7.5 229 2227 0.2 6	4 W 0343 5.7 174 1010 0.7 21 1546 6.6 201 2301 0.8 24	19 Th 0423 5.8 177 1104 0.2 6 1642 6.8 207 2351 0.1 3	4 F 0401 5.1 155 1031 0.2 6 1602 6.3 192 2326 0.2 6	19 Sa 0452 5.3 162 1130 -0.2 -6 1710 6.0 183	5 M 0329 6.2 189 1003 0.9 27 1543 6.6 201 2240 1.0 30	20 Tu 0349 6.6 201 1038 0.3 9 1611 7.4 226 2321 0.4 12	5 Th 0425 5.5 168 1049 0.7 21 1623 6.5 198 2347 0.8 24	20 F 0519 5.7 174 1156 0.3 9 1738 6.5 198	5 Sa 0446 5.1 155 1118 0.2 6 1649 6.2 189	20 Su 0012 -0.3 -9 0545 5.2 158 1220 -0.1 -3 1804 5.8 177	6 Tu 0410 6.0 183 1038 0.9 27 1620 6.6 201 2324 1.0 30	21 W 0445 6.3 192 1129 0.4 12 1707 7.2 219	6 F 0511 5.4 165 1134 0.7 21 1709 6.5 198	21 Sa 0043 0.2 6 0616 5.6 171 1250 0.3 9 1836 6.3 192	6 Su 0014 0.2 6 0536 5.1 155 1211 0.1 3 1745 6.2 189	21 M 0100 -0.2 -6 0639 5.2 158 1312 0.0 0 1858 5.6 171	7 W 0454 5.9 180 1116 0.9 27 1700 6.6 201	22 Th 0015 0.5 15 0543 6.1 186 1222 0.5 15 1805 6.9 210	7 Sa 0037 0.8 24 0602 5.4 165 1227 0.7 21 1807 6.5 198	22 Su 0135 0.2 6 0713 5.6 171 1345 0.4 12 1933 6.1 186	7 M 0104 0.1 3 0631 5.3 162 1309 0.1 3 1846 6.1 186	22 Tu 0148 -0.2 -6 0733 5.3 162 1406 0.0 0 1953 5.5 168	8 Th 0011 1.1 34 0541 5.7 174 1159 0.9 27 1746 6.6 201	23 F 0110 0.6 18 0642 6.0 183 1317 0.6 18 1905 6.7 204	8 Su 0130 0.7 21 0659 5.5 168 1326 0.7 21 1912 6.5 198	23 M 0227 0.2 6 0810 5.6 171 1441 0.4 12 2030 6.0 183	8 Tu 0157 0.0 0 0729 5.5 168 1411 0.1 3 1949 6.1 186	23 W 0236 -0.2 -6 0826 5.4 165 1501 0.0 0 2047 5.3 162	9 F 0102 1.1 34 0634 5.6 171 1251 0.9 27 1843 6.6 201	24 Sa 0206 0.6 18 0742 5.9 180 1414 0.7 21 2005 6.6 201	9 M 0226 0.6 18 0758 5.6 171 1430 0.6 18 2015 6.5 198	24 Tu 0319 0.1 3 0904 5.8 177 1536 0.3 9 2124 6.0 183	9 W 0252 -0.1 -3 0828 5.7 174 1515 0.1 3 2050 6.0 183	24 Th 0325 -0.2 -6 0918 5.5 168 1556 -0.1 -3 2141 5.3 162	10 Sa 0158 1.1 34 0731 5.6 171 1350 0.9 27 1945 6.7 204	25 Su 0301 0.6 18 0840 6.0 183 1511 0.7 21 2102 6.6 201	10 Tu 0322 0.5 15 0856 5.9 180 1535 0.5 15 2116 6.6 201	25 W 0408 0.1 3 0956 6.0 183 1631 0.2 6 2216 6.0 183	10 Th 0348 -0.2 -6 0925 6.1 186 1617 -0.1 -3 2149 6.0 183	25 F 0414 -0.2 -6 1009 5.6 171 1650 -0.1 -3 2232 5.2 158	11 Su 0255 1.1 34 0829 5.7 174 1454 0.9 27 2046 6.8 207	26 M 0355 0.5 15 0936 6.1 186 1608 0.6 18 2157 6.6 201	11 W 0418 0.3 9 0952 6.3 192 1637 0.3 9 2214 6.7 204	26 Th 0456 0.0 0 1045 6.1 186 1723 0.2 6 2305 5.9 180	11 F 0443 -0.4 -12 1020 6.4 195 1718 -0.2 -6 2246 6.0 183	26 Sa 0502 -0.2 -6 1057 5.8 177 1742 -0.2 -6 2321 5.2 158	12 M 0353 0.9 27 0926 6.0 183 1557 0.8 24 2145 7.0 213	27 Tu 0446 0.4 12 1028 6.3 192 1701 0.5 15 2247 6.6 201	12 Th 0512 0.1 3 1045 6.7 204 1737 0.2 6 2308 6.8 207	27 F 0542 0.0 0 1131 6.3 192 1813 0.1 3 2351 5.9 180	12 Sa 0537 -0.5 -15 1113 6.7 204 1816 -0.4 -12 2340 6.0 183	27 Su 0549 -0.3 -9 1142 5.9 180 1832 -0.3 -9	13 Tu 0449 0.7 21 1020 6.3 192 1658 0.6 18 2240 7.2 219	28 W 0534 0.3 9 1117 6.5 198 1752 0.5 15 2335 6.6 201	13 F 0604 0.0 0 1137 7.0 213 1834 0.0 0	28 Sa 0625 0.1 3 1214 6.4 195 1900 0.1 3	13 Su 0629 -0.5 -15 1205 6.8 207 1912 -0.5 -15	28 M 0008 5.1 155 0635 -0.2 -6 1226 5.9 180 1920 -0.3 -9	14 W 0542 0.5 15 1112 6.7 204 1757 0.4 12 2333 7.3 223	29 Th 0619 0.3 9 1201 6.6 201 1840 0.4 12	14 Sa 0001 6.7 204 0654 -0.1 -3 1227 7.3 223 1929 -0.1 -3	29 Su 0036 5.8 177 0707 0.1 3 1255 6.4 195 1945 0.1 3	14 M 0033 5.9 180 0721 -0.5 -15 1256 6.9 210 2005 -0.5 -15	29 Tu 0052 5.1 155 0719 -0.2 -6 1307 6.0 183 2006 -0.3 -9	15 Th 0633 0.3 9 1202 7.0 213 1853 0.3 9	30 F 0019 6.5 198 0701 0.4 12 1243 6.7 204 1926 0.5 15	15 Su 0052 6.6 201 0744 -0.2 -6 1316 7.4 226 2023 -0.2 -6	30 M 0118 5.6 171 0748 0.2 6 1333 6.3 192 2030 0.1 3	15 Tu 0125 5.8 177 0812 -0.5 -15 1346 6.8 207 2057 -0.5 -15	30 W 0135 5.0 152 0803 -0.2 -6 1346 6.0 183 2050 -0.3 -9		31 Sa 0102 6.4 195 0741 0.5 15 1323 6.7 204 2010 0.5 15				31 Th 0216 4.9 149 0846 -0.3 -9 1425 6.0 183 2135 -0.3 -9						
3 Sa 0208 6.6 201 0852 0.8 24 1429 6.7 204 2116 0.8 24	18 Su 0204 7.1 216 0859 0.1 3 1428 7.6 232 2134 0.2 6	3 Tu 0303 5.8 177 0933 0.7 21 1512 6.6 201 2218 0.7 21	18 W 0328 6.1 186 1014 0.0 0 1548 7.0 213 2259 0.0 0	3 Th 0320 5.2 158 0948 0.2 6 1523 6.3 192 2241 0.2 6	18 F 0359 5.4 165 1040 -0.2 -6 1618 6.2 189 2324 -0.3 -9	4 Su 0249 6.4 195 0928 0.9 27 1507 6.7 204 2158 0.9 27	19 M 0256 6.8 207 0948 0.2 6 1519 7.5 229 2227 0.2 6	4 W 0343 5.7 174 1010 0.7 21 1546 6.6 201 2301 0.8 24	19 Th 0423 5.8 177 1104 0.2 6 1642 6.8 207 2351 0.1 3	4 F 0401 5.1 155 1031 0.2 6 1602 6.3 192 2326 0.2 6	19 Sa 0452 5.3 162 1130 -0.2 -6 1710 6.0 183	5 M 0329 6.2 189 1003 0.9 27 1543 6.6 201 2240 1.0 30	20 Tu 0349 6.6 201 1038 0.3 9 1611 7.4 226 2321 0.4 12	5 Th 0425 5.5 168 1049 0.7 21 1623 6.5 198 2347 0.8 24	20 F 0519 5.7 174 1156 0.3 9 1738 6.5 198	5 Sa 0446 5.1 155 1118 0.2 6 1649 6.2 189	20 Su 0012 -0.3 -9 0545 5.2 158 1220 -0.1 -3 1804 5.8 177	6 Tu 0410 6.0 183 1038 0.9 27 1620 6.6 201 2324 1.0 30	21 W 0445 6.3 192 1129 0.4 12 1707 7.2 219	6 F 0511 5.4 165 1134 0.7 21 1709 6.5 198	21 Sa 0043 0.2 6 0616 5.6 171 1250 0.3 9 1836 6.3 192	6 Su 0014 0.2 6 0536 5.1 155 1211 0.1 3 1745 6.2 189	21 M 0100 -0.2 -6 0639 5.2 158 1312 0.0 0 1858 5.6 171	7 W 0454 5.9 180 1116 0.9 27 1700 6.6 201	22 Th 0015 0.5 15 0543 6.1 186 1222 0.5 15 1805 6.9 210	7 Sa 0037 0.8 24 0602 5.4 165 1227 0.7 21 1807 6.5 198	22 Su 0135 0.2 6 0713 5.6 171 1345 0.4 12 1933 6.1 186	7 M 0104 0.1 3 0631 5.3 162 1309 0.1 3 1846 6.1 186	22 Tu 0148 -0.2 -6 0733 5.3 162 1406 0.0 0 1953 5.5 168	8 Th 0011 1.1 34 0541 5.7 174 1159 0.9 27 1746 6.6 201	23 F 0110 0.6 18 0642 6.0 183 1317 0.6 18 1905 6.7 204	8 Su 0130 0.7 21 0659 5.5 168 1326 0.7 21 1912 6.5 198	23 M 0227 0.2 6 0810 5.6 171 1441 0.4 12 2030 6.0 183	8 Tu 0157 0.0 0 0729 5.5 168 1411 0.1 3 1949 6.1 186	23 W 0236 -0.2 -6 0826 5.4 165 1501 0.0 0 2047 5.3 162	9 F 0102 1.1 34 0634 5.6 171 1251 0.9 27 1843 6.6 201	24 Sa 0206 0.6 18 0742 5.9 180 1414 0.7 21 2005 6.6 201	9 M 0226 0.6 18 0758 5.6 171 1430 0.6 18 2015 6.5 198	24 Tu 0319 0.1 3 0904 5.8 177 1536 0.3 9 2124 6.0 183	9 W 0252 -0.1 -3 0828 5.7 174 1515 0.1 3 2050 6.0 183	24 Th 0325 -0.2 -6 0918 5.5 168 1556 -0.1 -3 2141 5.3 162	10 Sa 0158 1.1 34 0731 5.6 171 1350 0.9 27 1945 6.7 204	25 Su 0301 0.6 18 0840 6.0 183 1511 0.7 21 2102 6.6 201	10 Tu 0322 0.5 15 0856 5.9 180 1535 0.5 15 2116 6.6 201	25 W 0408 0.1 3 0956 6.0 183 1631 0.2 6 2216 6.0 183	10 Th 0348 -0.2 -6 0925 6.1 186 1617 -0.1 -3 2149 6.0 183	25 F 0414 -0.2 -6 1009 5.6 171 1650 -0.1 -3 2232 5.2 158	11 Su 0255 1.1 34 0829 5.7 174 1454 0.9 27 2046 6.8 207	26 M 0355 0.5 15 0936 6.1 186 1608 0.6 18 2157 6.6 201	11 W 0418 0.3 9 0952 6.3 192 1637 0.3 9 2214 6.7 204	26 Th 0456 0.0 0 1045 6.1 186 1723 0.2 6 2305 5.9 180	11 F 0443 -0.4 -12 1020 6.4 195 1718 -0.2 -6 2246 6.0 183	26 Sa 0502 -0.2 -6 1057 5.8 177 1742 -0.2 -6 2321 5.2 158	12 M 0353 0.9 27 0926 6.0 183 1557 0.8 24 2145 7.0 213	27 Tu 0446 0.4 12 1028 6.3 192 1701 0.5 15 2247 6.6 201	12 Th 0512 0.1 3 1045 6.7 204 1737 0.2 6 2308 6.8 207	27 F 0542 0.0 0 1131 6.3 192 1813 0.1 3 2351 5.9 180	12 Sa 0537 -0.5 -15 1113 6.7 204 1816 -0.4 -12 2340 6.0 183	27 Su 0549 -0.3 -9 1142 5.9 180 1832 -0.3 -9	13 Tu 0449 0.7 21 1020 6.3 192 1658 0.6 18 2240 7.2 219	28 W 0534 0.3 9 1117 6.5 198 1752 0.5 15 2335 6.6 201	13 F 0604 0.0 0 1137 7.0 213 1834 0.0 0	28 Sa 0625 0.1 3 1214 6.4 195 1900 0.1 3	13 Su 0629 -0.5 -15 1205 6.8 207 1912 -0.5 -15	28 M 0008 5.1 155 0635 -0.2 -6 1226 5.9 180 1920 -0.3 -9	14 W 0542 0.5 15 1112 6.7 204 1757 0.4 12 2333 7.3 223	29 Th 0619 0.3 9 1201 6.6 201 1840 0.4 12	14 Sa 0001 6.7 204 0654 -0.1 -3 1227 7.3 223 1929 -0.1 -3	29 Su 0036 5.8 177 0707 0.1 3 1255 6.4 195 1945 0.1 3	14 M 0033 5.9 180 0721 -0.5 -15 1256 6.9 210 2005 -0.5 -15	29 Tu 0052 5.1 155 0719 -0.2 -6 1307 6.0 183 2006 -0.3 -9	15 Th 0633 0.3 9 1202 7.0 213 1853 0.3 9	30 F 0019 6.5 198 0701 0.4 12 1243 6.7 204 1926 0.5 15	15 Su 0052 6.6 201 0744 -0.2 -6 1316 7.4 226 2023 -0.2 -6	30 M 0118 5.6 171 0748 0.2 6 1333 6.3 192 2030 0.1 3	15 Tu 0125 5.8 177 0812 -0.5 -15 1346 6.8 207 2057 -0.5 -15	30 W 0135 5.0 152 0803 -0.2 -6 1346 6.0 183 2050 -0.3 -9		31 Sa 0102 6.4 195 0741 0.5 15 1323 6.7 204 2010 0.5 15				31 Th 0216 4.9 149 0846 -0.3 -9 1425 6.0 183 2135 -0.3 -9												
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10 Sa 0158 1.1 34 0731 5.6 171 1350 0.9 27 1945 6.7 204	25 Su 0301 0.6 18 0840 6.0 183 1511 0.7 21 2102 6.6 201	10 Tu 0322 0.5 15 0856 5.9 180 1535 0.5 15 2116 6.6 201	25 W 0408 0.1 3 0956 6.0 183 1631 0.2 6 2216 6.0 183	10 Th 0348 -0.2 -6 0925 6.1 186 1617 -0.1 -3 2149 6.0 183	25 F 0414 -0.2 -6 1009 5.6 171 1650 -0.1 -3 2232 5.2 158	11 Su 0255 1.1 34 0829 5.7 174 1454 0.9 27 2046 6.8 207	26 M 0355 0.5 15 0936 6.1 186 1608 0.6 18 2157 6.6 201	11 W 0418 0.3 9 0952 6.3 192 1637 0.3 9 2214 6.7 204	26 Th 0456 0.0 0 1045 6.1 186 1723 0.2 6 2305 5.9 180	11 F 0443 -0.4 -12 1020 6.4 195 1718 -0.2 -6 2246 6.0 183	26 Sa 0502 -0.2 -6 1057 5.8 177 1742 -0.2 -6 2321 5.2 158	12 M 0353 0.9 27 0926 6.0 183 1557 0.8 24 2145 7.0 213	27 Tu 0446 0.4 12 1028 6.3 192 1701 0.5 15 2247 6.6 201	12 Th 0512 0.1 3 1045 6.7 204 1737 0.2 6 2308 6.8 207	27 F 0542 0.0 0 1131 6.3 192 1813 0.1 3 2351 5.9 180	12 Sa 0537 -0.5 -15 1113 6.7 204 1816 -0.4 -12 2340 6.0 183	27 Su 0549 -0.3 -9 1142 5.9 180 1832 -0.3 -9	13 Tu 0449 0.7 21 1020 6.3 192 1658 0.6 18 2240 7.2 219	28 W 0534 0.3 9 1117 6.5 198 1752 0.5 15 2335 6.6 201	13 F 0604 0.0 0 1137 7.0 213 1834 0.0 0	28 Sa 0625 0.1 3 1214 6.4 195 1900 0.1 3	13 Su 0629 -0.5 -15 1205 6.8 207 1912 -0.5 -15	28 M 0008 5.1 155 0635 -0.2 -6 1226 5.9 180 1920 -0.3 -9	14 W 0542 0.5 15 1112 6.7 204 1757 0.4 12 2333 7.3 223	29 Th 0619 0.3 9 1201 6.6 201 1840 0.4 12	14 Sa 0001 6.7 204 0654 -0.1 -3 1227 7.3 223 1929 -0.1 -3	29 Su 0036 5.8 177 0707 0.1 3 1255 6.4 195 1945 0.1 3	14 M 0033 5.9 180 0721 -0.5 -15 1256 6.9 210 2005 -0.5 -15	29 Tu 0052 5.1 155 0719 -0.2 -6 1307 6.0 183 2006 -0.3 -9	15 Th 0633 0.3 9 1202 7.0 213 1853 0.3 9	30 F 0019 6.5 198 0701 0.4 12 1243 6.7 204 1926 0.5 15	15 Su 0052 6.6 201 0744 -0.2 -6 1316 7.4 226 2023 -0.2 -6	30 M 0118 5.6 171 0748 0.2 6 1333 6.3 192 2030 0.1 3	15 Tu 0125 5.8 177 0812 -0.5 -15 1346 6.8 207 2057 -0.5 -15	30 W 0135 5.0 152 0803 -0.2 -6 1346 6.0 183 2050 -0.3 -9		31 Sa 0102 6.4 195 0741 0.5 15 1323 6.7 204 2010 0.5 15				31 Th 0216 4.9 149 0846 -0.3 -9 1425 6.0 183 2135 -0.3 -9																																																						
11 Su 0255 1.1 34 0829 5.7 174 1454 0.9 27 2046 6.8 207	26 M 0355 0.5 15 0936 6.1 186 1608 0.6 18 2157 6.6 201	11 W 0418 0.3 9 0952 6.3 192 1637 0.3 9 2214 6.7 204	26 Th 0456 0.0 0 1045 6.1 186 1723 0.2 6 2305 5.9 180	11 F 0443 -0.4 -12 1020 6.4 195 1718 -0.2 -6 2246 6.0 183	26 Sa 0502 -0.2 -6 1057 5.8 177 1742 -0.2 -6 2321 5.2 158	12 M 0353 0.9 27 0926 6.0 183 1557 0.8 24 2145 7.0 213	27 Tu 0446 0.4 12 1028 6.3 192 1701 0.5 15 2247 6.6 201	12 Th 0512 0.1 3 1045 6.7 204 1737 0.2 6 2308 6.8 207	27 F 0542 0.0 0 1131 6.3 192 1813 0.1 3 2351 5.9 180	12 Sa 0537 -0.5 -15 1113 6.7 204 1816 -0.4 -12 2340 6.0 183	27 Su 0549 -0.3 -9 1142 5.9 180 1832 -0.3 -9	13 Tu 0449 0.7 21 1020 6.3 192 1658 0.6 18 2240 7.2 219	28 W 0534 0.3 9 1117 6.5 198 1752 0.5 15 2335 6.6 201	13 F 0604 0.0 0 1137 7.0 213 1834 0.0 0	28 Sa 0625 0.1 3 1214 6.4 195 1900 0.1 3	13 Su 0629 -0.5 -15 1205 6.8 207 1912 -0.5 -15	28 M 0008 5.1 155 0635 -0.2 -6 1226 5.9 180 1920 -0.3 -9	14 W 0542 0.5 15 1112 6.7 204 1757 0.4 12 2333 7.3 223	29 Th 0619 0.3 9 1201 6.6 201 1840 0.4 12	14 Sa 0001 6.7 204 0654 -0.1 -3 1227 7.3 223 1929 -0.1 -3	29 Su 0036 5.8 177 0707 0.1 3 1255 6.4 195 1945 0.1 3	14 M 0033 5.9 180 0721 -0.5 -15 1256 6.9 210 2005 -0.5 -15	29 Tu 0052 5.1 155 0719 -0.2 -6 1307 6.0 183 2006 -0.3 -9	15 Th 0633 0.3 9 1202 7.0 213 1853 0.3 9	30 F 0019 6.5 198 0701 0.4 12 1243 6.7 204 1926 0.5 15	15 Su 0052 6.6 201 0744 -0.2 -6 1316 7.4 226 2023 -0.2 -6	30 M 0118 5.6 171 0748 0.2 6 1333 6.3 192 2030 0.1 3	15 Tu 0125 5.8 177 0812 -0.5 -15 1346 6.8 207 2057 -0.5 -15	30 W 0135 5.0 152 0803 -0.2 -6 1346 6.0 183 2050 -0.3 -9		31 Sa 0102 6.4 195 0741 0.5 15 1323 6.7 204 2010 0.5 15				31 Th 0216 4.9 149 0846 -0.3 -9 1425 6.0 183 2135 -0.3 -9																																																												
12 M 0353 0.9 27 0926 6.0 183 1557 0.8 24 2145 7.0 213	27 Tu 0446 0.4 12 1028 6.3 192 1701 0.5 15 2247 6.6 201	12 Th 0512 0.1 3 1045 6.7 204 1737 0.2 6 2308 6.8 207	27 F 0542 0.0 0 1131 6.3 192 1813 0.1 3 2351 5.9 180	12 Sa 0537 -0.5 -15 1113 6.7 204 1816 -0.4 -12 2340 6.0 183	27 Su 0549 -0.3 -9 1142 5.9 180 1832 -0.3 -9	13 Tu 0449 0.7 21 1020 6.3 192 1658 0.6 18 2240 7.2 219	28 W 0534 0.3 9 1117 6.5 198 1752 0.5 15 2335 6.6 201	13 F 0604 0.0 0 1137 7.0 213 1834 0.0 0	28 Sa 0625 0.1 3 1214 6.4 195 1900 0.1 3	13 Su 0629 -0.5 -15 1205 6.8 207 1912 -0.5 -15	28 M 0008 5.1 155 0635 -0.2 -6 1226 5.9 180 1920 -0.3 -9	14 W 0542 0.5 15 1112 6.7 204 1757 0.4 12 2333 7.3 223	29 Th 0619 0.3 9 1201 6.6 201 1840 0.4 12	14 Sa 0001 6.7 204 0654 -0.1 -3 1227 7.3 223 1929 -0.1 -3	29 Su 0036 5.8 177 0707 0.1 3 1255 6.4 195 1945 0.1 3	14 M 0033 5.9 180 0721 -0.5 -15 1256 6.9 210 2005 -0.5 -15	29 Tu 0052 5.1 155 0719 -0.2 -6 1307 6.0 183 2006 -0.3 -9	15 Th 0633 0.3 9 1202 7.0 213 1853 0.3 9	30 F 0019 6.5 198 0701 0.4 12 1243 6.7 204 1926 0.5 15	15 Su 0052 6.6 201 0744 -0.2 -6 1316 7.4 226 2023 -0.2 -6	30 M 0118 5.6 171 0748 0.2 6 1333 6.3 192 2030 0.1 3	15 Tu 0125 5.8 177 0812 -0.5 -15 1346 6.8 207 2057 -0.5 -15	30 W 0135 5.0 152 0803 -0.2 -6 1346 6.0 183 2050 -0.3 -9		31 Sa 0102 6.4 195 0741 0.5 15 1323 6.7 204 2010 0.5 15				31 Th 0216 4.9 149 0846 -0.3 -9 1425 6.0 183 2135 -0.3 -9																																																																		
13 Tu 0449 0.7 21 1020 6.3 192 1658 0.6 18 2240 7.2 219	28 W 0534 0.3 9 1117 6.5 198 1752 0.5 15 2335 6.6 201	13 F 0604 0.0 0 1137 7.0 213 1834 0.0 0	28 Sa 0625 0.1 3 1214 6.4 195 1900 0.1 3	13 Su 0629 -0.5 -15 1205 6.8 207 1912 -0.5 -15	28 M 0008 5.1 155 0635 -0.2 -6 1226 5.9 180 1920 -0.3 -9	14 W 0542 0.5 15 1112 6.7 204 1757 0.4 12 2333 7.3 223	29 Th 0619 0.3 9 1201 6.6 201 1840 0.4 12	14 Sa 0001 6.7 204 0654 -0.1 -3 1227 7.3 223 1929 -0.1 -3	29 Su 0036 5.8 177 0707 0.1 3 1255 6.4 195 1945 0.1 3	14 M 0033 5.9 180 0721 -0.5 -15 1256 6.9 210 2005 -0.5 -15	29 Tu 0052 5.1 155 0719 -0.2 -6 1307 6.0 183 2006 -0.3 -9	15 Th 0633 0.3 9 1202 7.0 213 1853 0.3 9	30 F 0019 6.5 198 0701 0.4 12 1243 6.7 204 1926 0.5 15	15 Su 0052 6.6 201 0744 -0.2 -6 1316 7.4 226 2023 -0.2 -6	30 M 0118 5.6 171 0748 0.2 6 1333 6.3 192 2030 0.1 3	15 Tu 0125 5.8 177 0812 -0.5 -15 1346 6.8 207 2057 -0.5 -15	30 W 0135 5.0 152 0803 -0.2 -6 1346 6.0 183 2050 -0.3 -9		31 Sa 0102 6.4 195 0741 0.5 15 1323 6.7 204 2010 0.5 15				31 Th 0216 4.9 149 0846 -0.3 -9 1425 6.0 183 2135 -0.3 -9																																																																								
14 W 0542 0.5 15 1112 6.7 204 1757 0.4 12 2333 7.3 223	29 Th 0619 0.3 9 1201 6.6 201 1840 0.4 12	14 Sa 0001 6.7 204 0654 -0.1 -3 1227 7.3 223 1929 -0.1 -3	29 Su 0036 5.8 177 0707 0.1 3 1255 6.4 195 1945 0.1 3	14 M 0033 5.9 180 0721 -0.5 -15 1256 6.9 210 2005 -0.5 -15	29 Tu 0052 5.1 155 0719 -0.2 -6 1307 6.0 183 2006 -0.3 -9	15 Th 0633 0.3 9 1202 7.0 213 1853 0.3 9	30 F 0019 6.5 198 0701 0.4 12 1243 6.7 204 1926 0.5 15	15 Su 0052 6.6 201 0744 -0.2 -6 1316 7.4 226 2023 -0.2 -6	30 M 0118 5.6 171 0748 0.2 6 1333 6.3 192 2030 0.1 3	15 Tu 0125 5.8 177 0812 -0.5 -15 1346 6.8 207 2057 -0.5 -15	30 W 0135 5.0 152 0803 -0.2 -6 1346 6.0 183 2050 -0.3 -9		31 Sa 0102 6.4 195 0741 0.5 15 1323 6.7 204 2010 0.5 15				31 Th 0216 4.9 149 0846 -0.3 -9 1425 6.0 183 2135 -0.3 -9																																																																														
15 Th 0633 0.3 9 1202 7.0 213 1853 0.3 9	30 F 0019 6.5 198 0701 0.4 12 1243 6.7 204 1926 0.5 15	15 Su 0052 6.6 201 0744 -0.2 -6 1316 7.4 226 2023 -0.2 -6	30 M 0118 5.6 171 0748 0.2 6 1333 6.3 192 2030 0.1 3	15 Tu 0125 5.8 177 0812 -0.5 -15 1346 6.8 207 2057 -0.5 -15	30 W 0135 5.0 152 0803 -0.2 -6 1346 6.0 183 2050 -0.3 -9		31 Sa 0102 6.4 195 0741 0.5 15 1323 6.7 204 2010 0.5 15				31 Th 0216 4.9 149 0846 -0.3 -9 1425 6.0 183 2135 -0.3 -9																																																																																				
	31 Sa 0102 6.4 195 0741 0.5 15 1323 6.7 204 2010 0.5 15				31 Th 0216 4.9 149 0846 -0.3 -9 1425 6.0 183 2135 -0.3 -9																																																																																										

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Ocean City, Maryland, 2020

Times and Heights of High and Low Waters

January				February				March															
Time	Height			Time	Height			Time	Height			Time	Height										
	h	m	ft	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm								
1 W	0526	0.3	9	16 Th	0543	-0.3	-9	1 Sa	0013	2.9	88	16 Su	0106	3.5	107	1 Su	0555	0.5	15	16 M	0040	3.6	110
	1141	3.2	98		1151	3.6	110		0631	0.5	15		0736	0.0	0		1151	2.7	82		0718	0.2	6
	1811	0.4	12		1819	-0.4	-12		1231	2.7	82		1326	2.6	79		1802	0.5	15		1304	2.6	79
2 Th	0619	0.5	15	17 F	0647	-0.1	-3	2 Su	0726	0.6	18	17 M	0213	3.4	104	2 M	0022	3.2	98	17 Tu	0148	3.4	104
	1228	2.9	88		0647	-0.1	-3		0726	0.6	18		0845	0.2	6		0650	0.6	18		0826	0.3	9
	1855	0.4	12		1248	3.2	98		1323	2.5	76		1433	2.5	76		1242	2.6	79		1413	2.5	76
3 F	0713	0.6	18	18 Sa	0753	0.0	0	3 M	1421	2.5	76	18 Tu	0322	3.4	104	3 Tu	0120	3.2	98	18 W	0259	3.3	101
	1319	2.8	85		0753	0.0	0		0824	0.6	18		0955	0.2	6		0749	0.6	18		0935	0.4	12
	1939	0.4	12		1350	2.9	88		1421	2.5	76		1539	2.4	73		1341	2.5	76		1522	2.5	76
4 Sa	0809	0.6	18	19 Su	2008	-0.3	-9	4 Tu	2028	0.3	9	19 W	0423	3.5	107	4 W	0223	3.4	104	19 Th	0404	3.3	101
	1413	2.7	82		0236	3.4	104		0302	3.3	101		1059	0.2	6		0850	0.6	18		1037	0.4	12
	2025	0.4	12		0901	0.1	3		0924	0.5	15		1636	2.5	76		1444	2.6	79		1620	2.6	79
5 Su	0906	0.6	18	20 M	2105	-0.3	-9	5 W	2123	0.2	6	20 Th	0516	3.5	107	5 Th	0325	3.6	110	20 F	0456	3.4	104
	1506	2.7	82		0339	3.6	110		0358	3.5	107		1151	0.1	3		0952	0.4	12		1125	0.3	9
	2113	0.3	9		1008	0.0	0		1023	0.3	9		1726	2.6	79		1545	2.8	85		1707	2.8	85
6 M	1003	0.5	15	21 Tu	2202	-0.3	-9	6 Th	2219	-0.1	-3	21 F	0602	3.6	110	6 F	0423	3.9	119	21 Sa	0539	3.5	107
	1557	2.7	82		0437	3.7	113		0451	3.8	116		1233	0.0	0		1050	0.2	6		1203	0.2	6
	2201	0.1	3		1111	0.0	0		1119	0.1	3		1810	2.7	82		1642	3.0	91		1748	3.0	91
7 Tu	1646	2.8	85	22 W	2257	-0.4	-12	7 F	1706	2.8	85	22 Sa	0602	3.6	110	7 Sa	0518	4.2	128	22 Su	0001	-0.1	-3
	2250	0.0	0		1740	2.6	79		1758	3.1	94		1851	2.9	88		1143	-0.1	-3		0617	3.5	107
					2348	-0.5	-15		0542	4.1	125		0020	-0.3	-9		1735	3.4	104		1236	0.2	6
8 W	2339	-0.3	-9	23 Th				8 Sa	1849	3.3	101	23 Su	0101	-0.4	-12	8 Su	0610	4.4	134	23 M	0041	-0.1	-3
					0617	3.8	116		0006	-0.6	-18		0722	3.7	113		1232	-0.4	-12		0654	3.5	107
					1251	-0.2	-6		0633	4.4	134		0722	3.7	113		1827	3.7	113		1308	0.1	3
9 Th	1822	3.0	91	24 F	1827	2.7	82	9 Su	1939	3.5	107	24 M	0140	-0.4	-12	9 M	0041	-0.9	-27	24 Tu	0119	-0.2	-6
					0035	-0.5	-15		0057	-0.8	-24		0800	3.6	110		0700	4.5	137		0730	3.5	107
					0702	3.8	116		0722	4.5	137		1416	-0.1	-3		1319	-0.6	-18		1340	0.1	3
10 F	1910	3.1	94	25 Sa	1912	2.7	82	10 M	2030	3.6	110	25 Tu	0219	-0.3	-9	10 Tu	0133	-1.0	-30	25 W	0156	-0.2	-6
					0744	3.8	116		0811	4.5	137		0837	3.6	110		0750	4.4	134		0807	3.5	107
					1411	-0.2	-6		1432	-0.7	-21		1449	0.0	0		1405	-0.8	-24		1412	0.1	3
11 Sa	1959	3.2	98	26 Su	1955	2.8	85	11 Tu	2121	3.7	113	26 W	0258	-0.2	-6	11 W	0225	-1.0	-30	26 Th	0234	-0.1	-3
					0200	-0.5	-15		0239	-1.0	-30		0913	3.5	107		0838	4.3	131		0843	3.4	104
					0825	3.8	116		0900	4.4	134		1523	0.1	3		1451	-0.8	-24		1445	0.2	6
12 Su	2049	3.2	98	27 M	2037	2.8	85	12 W	2212	3.7	113	27 Th	0338	0.0	0	12 Th	0319	-0.9	-27	27 F	0313	0.1	3
					0241	-0.4	-12		0948	4.1	125		0950	3.3	101		0927	4.0	122		0920	3.3	101
					0905	3.7	113		1607	-0.7	-21		1559	0.2	6		1539	-0.7	-21		1520	0.3	9
13 M	2139	3.3	101	28 Tu	2118	2.9	88	13 Th	2306	3.7	113	28 F	0420	0.2	6	13 F	0414	-0.7	-21	28 Sa	0354	0.2	6
					0322	-0.2	-6		0429	-0.7	-21		1028	3.1	94		1016	3.6	110		0957	3.1	94
					0943	3.5	107		1038	3.8	116		1636	0.3	9		1628	-0.5	-15		1558	0.4	12
14 Tu	2232	3.3	101	29 W	2159	2.9	88	14 F	0528	-0.4	-12	29 Sa	0506	0.3	9	14 Sa	0512	-0.4	-12	29 Su	0439	0.4	12
					0405	0.0	0		1129	3.4	104		1107	2.9	88		1107	3.2	98		1036	2.9	88
					1022	3.3	101		1750	-0.4	-12		1717	0.4	12		1721	-0.3	-9		1639	0.5	15
15 W				30 Th	2241	2.9	88	15 Sa	0003	3.6	110	15 Su	2331	3.2	98	15 Su	2339	3.9	119	30 M	0528	0.5	15
					0451	0.2	6		0631	-0.2	-6		0613	-0.1	-3		0613	-0.1	-3		1120	2.8	85
					1102	3.1	94		1225	3.0	91		1202	2.9	88		1817	-0.1	-3		1726	0.6	18
16 Th				31 F	2325	2.9	88	16 Su	1845	-0.3	-9	31 Tu				31 Tu	0622	0.6	18				
					0539	0.4	12											1211	2.7	82			
					1144	2.9	88											1820	0.6	18			

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Ocean City, Maryland, 2020

Times and Heights of High and Low Waters

April				May				June																
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height											
h m	ft	cm	h m	ft	cm	h m	ft	cm	h m	ft	cm	h m	ft	cm										
1 W ●	0045 0721 1312 1921	3.5 0.6 2.7 0.5	107 18 82 15	16 Th	0227 0902 1457 2059	3.3 0.5 2.6 0.5	101 15 79 15	1 F	0123 0756 1356 2004	3.7 0.4 3.0 0.4	113 12 91 12	16 Sa	0243 0907 1515 2123	3.1 0.6 2.9 0.6	94 18 88 18	1 M	0301 0920 1538 2157	3.6 -0.1 3.9 0.0	110 -3 119 0	16 Tu	0333 0939 1605 2227	2.9 0.5 3.5 0.6	88 15 107 18	
2 Th	0150 0822 1417 2024	3.6 0.6 2.8 0.3	110 18 85 9	17 F	0330 0958 1554 2159	3.3 0.5 2.8 0.4	101 15 85 12	2 Sa	0227 0854 1459 2109	3.8 0.3 3.3 0.2	116 9 101 6	17 Su	0334 0951 1602 2217	3.1 0.5 3.2 0.6	94 15 98 18	2 Tu	0359 1013 1633 2259	3.6 -0.3 4.2 -0.2	110 -9 128 -6	17 W	0420 1023 1649 2315	2.9 0.4 3.7 0.5	88 12 113 15	
3 F	0255 0922 1521 2129	3.7 0.4 3.0 0.1	113 12 91 3	18 Sa	0421 1044 1639 2252	3.3 0.5 3.0 0.3	101 15 91 9	3 Su	0328 0949 1558 2213	3.9 0.0 3.7 -0.1	119 0 113 -3	18 M	0420 1031 1644 2305	3.1 0.5 3.4 0.5	94 15 104 15	3 W	0454 1105 1726 2357	3.5 -0.4 4.5 -0.4	107 -12 137 -12	18 Th	0504 1106 1732	3.0 0.3 4.0	91 9 122	
4 Sa	0356 1020 1619 2231	3.9 0.1 3.4 -0.2	119 3 104 -6	19 Su	0504 1121 1719 2337	3.3 0.4 3.2 0.2	101 12 98 6	4 M	0425 1043 1653 2314	3.9 -0.2 4.1 -0.4	119 -6 125 -12	19 Tu	0502 1109 1724 2348	3.1 0.4 3.7 0.3	94 12 113 9	4 Th	0547 1156 1818	3.5 -0.5 4.7	107 -15 143	19 F	0001 0549 1149 1814	0.4 3.0 0.2 4.1	12 91 6 125	
5 Su	0452 1113 1714 2330	4.1 -0.2 3.7 -0.5	125 -6 113 -15	20 M	0542 1155 1757	3.4 0.3 3.5	104 9 107	5 Tu	0519 1133 1745	3.9 -0.4 4.4	119 -12 134	20 W	0542 1147 1803	3.2 0.3 3.9	98 9 119	5 F	0051 0639 1245 1909	-0.5 3.4 -0.6 4.7	-15 104 -18 143	20 Sa	0044 0633 1232 1858	0.3 3.1 0.1 4.3	9 94 3 131	
6 M	0544 1203 1806	4.2 -0.4 4.1	128 -12 125	21 Tu	0017 0620 1228 1835	0.1 3.4 0.2 3.7	3 104 6 113	6 W	0010 0611 1222 1837	-0.6 3.9 -0.6 4.7	-18 119 -18 143	21 Th	0029 0623 1224 1843	0.2 3.2 0.2 4.1	6 98 6 125	6 Sa	0142 0731 1333 1959	-0.5 3.3 -0.5 4.7	-15 101 -15 143	21 Su	0126 0717 1315 1942	0.2 3.1 0.1 4.4	6 94 3 134	
7 Tu	0025 0636 1250 1857	-0.8 4.3 -0.6 4.4	-24 131 -18 134	22 W	0056 0657 1302 1913	0.1 3.4 0.2 3.9	3 104 6 119	7 Th	0104 0702 1309 1927	-0.7 3.8 -0.7 4.8	-21 116 -21 146	22 F	0109 0704 1302 1923	0.2 3.2 0.2 4.2	6 98 6 128	7 Su	0232 0821 1422 2049	-0.4 3.2 -0.4 4.5	-12 98 -12 137	22 M	0210 0802 1359 2027	0.1 3.1 0.0 4.4	3 94 0 134	
8 W	0119 0726 1337 1948	-0.9 4.2 -0.8 4.6	-27 128 -24 140	23 Th	0133 0735 1336 1951	0.0 3.4 0.2 4.0	0 104 6 122	8 F	0156 0752 1356 2018	-0.7 3.6 -0.6 4.8	-21 110 -18 146	23 Sa	0149 0745 1341 2005	0.1 3.2 0.2 4.2	3 98 6 128	8 M	0322 0911 1511 2137	-0.2 3.1 -0.2 4.3	-6 94 -6 131	23 Tu	0255 0848 1445 2113	0.1 3.2 0.0 4.4	3 98 0 134	
9 Th	0211 0815 1423 2039	-0.9 4.0 -0.7 4.6	-27 122 -21 140	24 F	0211 0813 1411 2030	0.1 3.3 0.2 4.0	3 101 6 122	9 Sa	0248 0843 1445 2108	-0.6 3.4 -0.5 4.6	-18 104 -15 140	24 Su	0230 0826 1420 2047	0.2 3.1 0.2 4.2	6 94 6 128	9 Tu	0412 1000 1602 2226	0.0 3.0 0.0 4.0	0 91 0 122	24 W	0341 0935 1535 2200	0.1 3.2 0.1 4.3	3 98 3 131	
10 F	0304 0905 1510 2129	-0.8 3.7 -0.6 4.5	-24 113 -18 137	25 Sa	0251 0852 1447 2109	0.1 3.2 0.3 4.0	3 98 9 122	10 Su	0341 0933 1535 2159	-0.4 3.2 -0.3 4.4	-12 98 -9 134	25 M	0314 0909 1503 2130	0.2 3.1 0.3 4.2	6 94 9 128	10 W	0503 1050 1655 2314	0.2 2.9 0.3 3.7	6 88 9 113	25 Th	0430 1025 1629 2248	0.1 3.2 0.1 4.2	3 98 3 128	
11 Sa	0358 0955 1600 2221	-0.5 3.4 -0.4 4.3	-15 104 -12 131	26 Su	0333 0931 1526 2150	0.2 3.1 0.4 4.0	6 94 12 122	11 M	0435 1024 1628 2251	-0.1 3.0 0.0 4.0	-3 91 0 122	26 Tu	0400 0953 1550 2216	0.3 3.0 0.3 4.1	9 91 9 125	11 Th	0553 1141 1750	0.3 2.8 0.5	9 85 15	26 F	0521 1118 1727 2340	0.1 3.3 0.2 4.0	3 101 6 122	
12 Su	0454 1046 1654 2315	-0.2 3.1 -0.1 4.0	-6 94 -3 122	27 M	0418 1013 1610 2234	0.4 3.0 0.5 3.9	12 91 15 119	12 Tu	0531 1117 1724 2345	0.1 2.8 0.2 3.7	3 85 6 113	27 W	0450 1041 1643 2306	0.3 3.0 0.4 4.0	9 91 12 122	12 F	0004 0641 1236 1847	3.4 0.5 2.8 0.6	104 15 85 18	27 Sa	0613 1215 1829	0.1 3.4 0.3	3 104 9	
13 M	0554 1140 1751	0.0 2.8 0.1	0 85 3	28 Tu	0508 1058 1700 2324	0.5 2.9 0.5 3.8	15 88 15 116	13 W	0628 1214 1823	0.3 2.7 0.5	9 82 15	28 Th	0543 1134 1741	0.3 3.0 0.4	9 91 12	13 Sa	0056 0728 1332 1943	3.2 0.5 2.9 0.7	98 15 88 21	28 Su	0036 0705 1316 1933	3.7 0.0 3.6 0.3	113 0 110 9	
14 Tu	0013 0656 1241 1852	3.7 0.3 2.6 0.3	113 9 79 9	29 W	0602 1150 1757	0.5 2.8 0.6	15 85 18	14 Th	0043 0725 1316 1924	3.4 0.5 2.7 0.6	104 15 82 18	29 F	0000 0637 1233 1843	3.9 0.3 3.1 0.4	119 9 94 12	14 Su	0150 0812 1428 2039	3.0 0.6 3.0 0.8	91 18 91 24	29 M	0136 0758 1419 2038	3.5 0.0 3.8 0.2	107 0 116 6	
15 W	0118 0800 1349 1956	3.4 0.5 2.5 0.5	104 15 76 15	30 Th	0020 0659 1250 1900	3.8 0.5 2.8 0.5	116 15 85 15	15 F	0144 0818 1419 2024	3.2 0.6 2.7 0.6	98 18 82 18	30 Sa	0059 0731 1336 1948	3.8 0.2 3.3 0.3	116 6 101 9	15 M	0243 0856 1519 2135	2.9 0.6 3.3 0.7	88 18 101 21	30 Tu	0237 0852 1519 2144	3.3 -0.1 4.0 0.2	101 -3 122 6	
												31 Su	0201 0826 1439 2053	3.7 0.1 3.6 0.2	113 3 110 6									

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Ocean City, Maryland, 2020

Times and Heights of High and Low Waters

July				August				September																																																																																			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height																																																																																
h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm																																																																																
1 W 0337 3.2 98 0947 -0.2 -6 1616 4.2 128 2247 0.0 0	16 Th 0339 2.8 85 0940 0.5 15 1613 3.8 116 2240 0.7 21	1 Sa 0514 3.0 91 1120 -0.1 -3 1750 4.3 131	16 Su 0447 3.1 94 1051 0.3 9 1720 4.4 134 2349 0.4 12	1 Tu 0049 0.3 9 0633 3.3 101 1243 0.0 0 1901 4.1 125	16 W 0006 0.1 3 0603 4.0 122 1215 -0.2 -6 1832 4.7 143	2 Th 0434 3.1 94 1042 -0.3 -9 1711 4.4 134 2346 -0.1 -3	17 F 0428 2.9 88 1029 0.4 12 1701 4.0 122 2330 0.5 15	2 Su 0027 0.1 3 0605 3.0 91 1211 -0.2 -6 1838 4.3 131	17 M 0537 3.3 101 1143 0.0 0 1809 4.6 140	2 W 0124 0.2 6 0714 3.5 107 1324 0.1 3 1940 4.1 125	17 Th 0052 -0.2 -6 0653 4.3 131 1307 -0.4 -12 1920 4.7 143	3 F 0528 3.1 94 1135 -0.4 -12 1802 4.5 137	18 Sa 0516 3.0 91 1118 0.2 6 1747 4.2 128	3 M 0112 0.1 3 0653 3.1 94 1259 -0.2 -6 1923 4.3 131	18 Tu 0036 0.2 6 0626 3.6 110 1233 -0.2 -6 1857 4.7 143	3 Th 0158 0.3 9 0754 3.6 110 1404 0.1 3 2017 4.0 122	18 F 0137 -0.3 -9 0742 4.6 140 1358 -0.5 -15 2009 4.6 140	4 Sa 0039 -0.2 -6 0621 3.1 94 1226 -0.4 -12 1853 4.5 137	19 Su 0017 0.4 12 0604 3.1 94 1206 0.1 3 1834 4.4 134	4 Tu 0152 0.1 3 0738 3.2 98 1343 -0.1 -3 2006 4.2 128	19 W 0121 0.0 0 0716 3.8 116 1323 -0.3 -9 1945 4.8 146	4 F 0232 0.3 9 0834 3.7 113 1444 0.2 6 2055 3.8 116	19 Sa 0222 -0.4 -12 0833 4.7 143 1451 -0.4 -12 2057 4.4 134	5 Su 0128 -0.2 -6 0711 3.1 94 1315 -0.4 -12 1942 4.5 137	20 M 0102 0.2 6 0651 3.2 98 1253 -0.1 -3 1920 4.6 140	5 W 0231 0.1 3 0822 3.3 101 1426 0.0 0 2047 4.1 125	20 Th 0206 -0.2 -6 0805 4.0 122 1414 -0.4 -12 2032 4.7 143	5 Sa 0306 0.4 12 0913 3.7 113 1524 0.4 12 2133 3.6 110	20 Su 0308 -0.4 -12 0924 4.8 146 1546 -0.3 -9 2147 4.0 122	6 M 0214 -0.2 -6 0800 3.1 94 1402 -0.3 -9 2029 4.3 131	21 Tu 0147 0.0 0 0739 3.4 104 1340 -0.2 -6 2007 4.6 140	6 Th 0309 0.2 6 0904 3.3 101 1509 0.1 3 2127 3.9 119	21 F 0251 -0.3 -9 0855 4.2 128 1506 -0.4 -12 2120 4.5 137	6 Su 0341 0.5 15 0953 3.7 113 1607 0.6 18 2211 3.4 104	21 M 0357 -0.2 -6 1016 4.7 143 1644 0.0 0 2238 3.7 113	7 Tu 0259 -0.1 -3 0847 3.1 94 1449 -0.1 -3 2114 4.2 128	22 W 0232 -0.1 -3 0827 3.5 107 1429 -0.2 -6 2054 4.6 140	7 F 0347 0.3 9 0946 3.3 101 1553 0.3 9 2207 3.7 113	22 Sa 0337 -0.3 -9 0945 4.3 131 1601 -0.2 -6 2209 4.2 128	7 M 0419 0.7 21 1033 3.7 113 1653 0.8 24 2251 3.2 98	22 Tu 0450 0.0 0 1111 4.5 137 1746 0.2 6 2334 3.3 101	8 W 0343 0.1 3 0933 3.1 94 1536 0.1 3 2158 3.9 119	23 Th 0318 -0.1 -3 0916 3.6 110 1520 -0.2 -6 2141 4.5 137	8 Sa 0425 0.4 12 1028 3.4 104 1639 0.5 15 2247 3.4 104	23 Su 0426 -0.2 -6 1038 4.3 131 1659 0.0 0 2259 3.8 116	8 Tu 0459 0.8 24 1117 3.7 113 1742 1.0 30 2335 3.0 91	23 W 0547 0.2 6 1211 4.2 128 1851 0.5 15	9 Th 0427 0.2 6 1019 3.0 91 1624 0.3 9 2241 3.7 113	24 F 0406 -0.1 -3 1006 3.7 113 1615 -0.1 -3 2229 4.2 128	9 Su 0505 0.5 15 1112 3.3 101 1728 0.7 21 2329 3.2 98	24 M 0517 -0.1 -3 1133 4.2 128 1801 0.2 6 2353 3.5 107	9 W 0544 0.9 27 1206 3.6 110 1836 1.1 34	24 Th 0035 3.0 91 0647 0.4 12 1318 4.0 122 2000 0.6 18	10 F 0511 0.3 9 1105 3.0 91 1715 0.5 15 2325 3.4 104	25 Sa 0455 -0.1 -3 1059 3.8 116 1714 0.1 3 2320 3.9 119	10 M 0546 0.7 21 1159 3.4 104 1819 0.9 27	25 Tu 0612 0.1 3 1233 4.1 125 1906 0.4 12	10 Th 0025 2.9 88 0634 1.0 30 1302 3.6 110 1933 1.1 34	25 F 0145 2.9 88 0751 0.5 15 1429 3.9 119 2109 0.7 21	11 Sa 0554 0.5 15 1153 3.0 91 1807 0.7 21	26 Su 0546 -0.1 -3 1155 3.8 116 1815 0.2 6	11 Tu 0015 3.0 91 0630 0.8 24 1250 3.4 104 1913 1.0 30	26 W 0054 3.1 94 0709 0.2 6 1339 4.0 122 2014 0.5 15	11 F 0123 2.8 85 0729 0.9 27 1403 3.7 113 2032 1.1 34	26 Sa 0258 2.9 88 0857 0.5 15 1536 3.9 119 2211 0.6 18	12 Su 0011 3.2 98 0636 0.6 18 1245 3.1 94 1900 0.8 24	27 M 0014 3.6 110 0638 0.0 0 1255 3.9 119 1920 0.3 9	12 W 0106 2.8 85 0717 0.8 24 1346 3.5 107 2009 1.0 30	27 Th 0200 2.9 88 0809 0.3 9 1447 4.0 122 2123 0.6 18	12 Sa 0225 2.9 88 0828 0.8 24 1504 3.9 119 2131 0.9 27	27 Su 0400 3.0 91 0959 0.5 15 1631 3.9 119 2303 0.6 18	13 M 0100 3.0 91 0720 0.6 18 1338 3.2 98 1955 0.9 27	28 Tu 0114 3.3 101 0732 0.0 0 1359 3.9 119 2026 0.4 12	13 Th 0203 2.8 85 0807 0.8 24 1443 3.6 110 2107 1.0 30	28 F 0308 2.9 88 0911 0.3 9 1552 4.0 122 2229 0.5 15	13 Su 0325 3.1 94 0927 0.6 18 1600 4.2 128 2227 0.7 21	28 M 0450 3.2 98 1055 0.4 12 1716 3.9 119 2343 0.5 15	14 Tu 0153 2.9 88 0804 0.6 18 1432 3.3 101 2051 0.9 27	29 W 0217 3.1 94 0829 0.0 0 1502 4.0 122 2133 0.4 12	14 F 0300 2.8 85 0901 0.7 21 1538 3.8 116 2205 0.9 27	29 Sa 0410 2.9 88 1013 0.3 9 1648 4.1 125 2324 0.4 12	14 M 0420 3.3 101 1026 0.3 9 1653 4.4 134 2318 0.4 12	29 Tu 0532 3.4 104 1143 0.3 9 1756 3.9 119	15 W 0247 2.8 85 0851 0.6 18 1524 3.5 107 2146 0.8 24	30 Th 0320 2.9 88 0927 0.0 0 1603 4.1 125 2238 0.3 9	15 Sa 0355 2.9 88 0956 0.5 15 1630 4.1 125 2259 0.7 21	30 Su 0504 3.0 91 1109 0.2 6 1737 4.1 125	15 Tu 0512 3.7 113 1121 0.0 0 1743 4.6 140	30 W 0018 0.4 12 0611 3.6 110 1224 0.2 6 1833 3.9 119	31 F 0420 2.9 88 1025 0.0 0 1659 4.2 128 2337 0.2 6	31 M 0010 0.3 9 0551 3.2 98 1158 0.1 3 1821 4.1 125

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Ocean City, Maryland, 2020

Times and Heights of High and Low Waters

October				November				December			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm
1 Th O	0050 0.3 9 0648 3.8 116 1303 0.2 6 1909 3.9 119	16 F ●	0022 -0.3 -9 0630 4.7 143 1251 -0.5 -15 1855 4.4 134	1 Su	0119 0.3 9 0735 4.1 125 1356 0.3 9 1953 3.4 104	16 M	0129 -0.7 -21 0752 5.0 152 1421 -0.5 -15 2014 3.6 110	1 Tu	0125 0.1 3 0750 4.1 125 1414 0.2 6 2007 3.0 91	16 W	0158 -0.8 -24 0827 4.6 140 1458 -0.5 -15 2045 3.1 94
2 F	0122 0.3 9 0726 3.9 119 1341 0.2 6 1946 3.8 116	17 Sa	0107 -0.5 -15 0721 4.9 149 1343 -0.6 -18 1945 4.3 131	2 M	0153 0.3 9 0814 4.2 128 1435 0.4 12 2032 3.3 101	17 Tu	0218 -0.6 -18 0844 4.9 149 1515 -0.4 -12 2105 3.4 104	2 W	0203 0.1 3 0831 4.1 125 1455 0.3 9 2048 3.0 91	17 Th	0248 -0.6 -18 0917 4.4 134 1549 -0.3 -9 2136 3.0 91
3 Sa	0154 0.3 9 0804 4.0 122 1419 0.3 9 2023 3.7 113	18 Su	0154 -0.5 -15 0811 5.0 152 1436 -0.5 -15 2035 4.0 122	3 Tu	0229 0.4 12 0853 4.1 125 1516 0.5 15 2111 3.2 98	18 W	0308 -0.4 -12 0936 4.7 143 1610 -0.2 -6 2157 3.2 98	3 Th	0243 0.2 6 0913 4.1 125 1539 0.3 9 2131 2.9 88	18 F	0339 -0.4 -12 1006 4.1 125 1640 -0.1 -3 2226 2.8 85
4 Su	0227 0.4 12 0842 4.0 122 1458 0.4 12 2101 3.5 107	19 M	0241 -0.5 -15 0903 5.0 152 1530 -0.3 -9 2126 3.7 113	4 W	0307 0.5 15 0934 4.1 125 1600 0.6 18 2152 3.0 91	19 Th	0401 -0.2 -6 1028 4.3 131 1707 0.1 3 2252 2.9 88	4 F	0327 0.3 9 0956 4.0 122 1626 0.4 12 2216 2.9 88	19 Sa	0433 -0.1 -3 1055 3.8 116 1732 0.1 3 2318 2.7 82
5 M	0302 0.5 15 0920 4.0 122 1539 0.6 18 2139 3.3 101	20 Tu	0331 -0.3 -9 0955 4.8 146 1628 -0.1 -3 2218 3.4 104	5 Th	0348 0.6 18 1016 4.0 122 1648 0.7 21 2236 2.9 88	20 F	0458 0.1 3 1123 4.0 122 1807 0.3 9 2349 2.8 85	5 Sa	0415 0.3 9 1042 3.9 119 1717 0.4 12 2305 2.8 85	20 Su	0528 0.1 3 1145 3.4 104 1823 0.2 6
6 Tu	0338 0.7 21 1000 4.0 122 1623 0.8 24 2219 3.2 98	21 W	0424 0.0 0 1050 4.5 137 1729 0.2 6 2313 3.1 94	6 F	0435 0.7 21 1103 3.9 119 1740 0.8 24 2326 2.8 85	21 Sa ●	0559 0.3 9 1221 3.7 113 1906 0.4 12	6 Su	0510 0.4 12 1132 3.8 116 1809 0.4 12	21 M ●	0013 2.7 82 0625 0.3 9 1236 3.1 94 1911 0.3 9
7 W	0419 0.8 24 1043 3.9 119 1712 0.9 27 2302 3.0 91	22 Th	0523 0.2 6 1148 4.2 128 1833 0.4 12	7 Sa	0530 0.8 24 1156 3.8 116 1835 0.8 24	22 Su	0053 2.7 82 0701 0.5 15 1322 3.4 104 2002 0.5 15	7 M ●	0001 2.9 88 0610 0.4 12 1227 3.7 113 1902 0.3 9	22 Tu	0111 2.7 82 0723 0.5 15 1330 2.9 88 1958 0.3 9
8 Th	0505 0.9 27 1130 3.8 116 1805 1.0 30 2351 2.9 88	23 F ●	0015 2.9 88 0625 0.4 12 1253 3.9 119 1938 0.6 18	8 Su	0024 2.9 88 0631 0.8 24 1255 3.8 116 1932 0.7 21	23 M	0200 2.8 85 0804 0.6 18 1423 3.3 101 2053 0.5 15	8 Tu	0103 3.1 94 0714 0.4 12 1327 3.6 110 1956 0.1 3	23 W	0210 2.8 85 0822 0.6 18 1425 2.8 85 2043 0.4 12
9 F ●	0558 1.0 30 1225 3.8 116 1902 1.1 34	24 Sa	0125 2.8 85 0730 0.6 18 1402 3.7 113 2042 0.6 18	9 M	0128 3.0 91 0734 0.6 18 1358 3.8 116 2027 0.5 15	24 Tu	0301 2.9 88 0905 0.6 18 1517 3.2 98 2138 0.5 15	9 W	0206 3.3 101 0819 0.2 6 1428 3.5 107 2049 -0.1 -3	24 Th	0305 3.0 91 0919 0.6 18 1517 2.7 82 2127 0.3 9
10 Sa	0050 2.9 88 0657 0.9 27 1327 3.8 116 2001 1.0 30	25 Su	0238 2.8 85 0836 0.6 18 1508 3.6 110 2139 0.6 18	10 Tu	0232 3.3 101 0839 0.5 15 1458 3.9 119 2121 0.3 9	25 W	0351 3.1 94 1001 0.6 18 1604 3.1 94 2219 0.4 12	10 Th	0307 3.7 113 0924 0.1 3 1527 3.5 107 2143 -0.3 -9	25 F	0354 3.2 98 1014 0.5 15 1605 2.7 82 2211 0.2 6
11 Su	0155 2.9 88 0759 0.8 24 1430 3.9 119 2059 0.8 24	26 M	0339 3.0 91 0938 0.6 18 1601 3.6 110 2227 0.6 18	11 W	0331 3.6 110 0942 0.2 6 1555 4.0 122 2214 0.0 0	26 Th	0433 3.4 104 1052 0.5 15 1646 3.1 94 2256 0.3 9	11 F	0405 4.0 122 1027 -0.1 -3 1624 3.4 104 2236 -0.5 -15	26 Sa	0438 3.4 104 1104 0.4 12 1650 2.7 82 2255 0.1 3
12 M	0258 3.2 98 0902 0.6 18 1529 4.1 125 2154 0.5 15	27 Tu	0427 3.2 98 1034 0.5 15 1645 3.6 110 2306 0.5 15	12 Th	0426 4.1 125 1043 -0.1 -3 1648 4.0 122 2304 -0.3 -9	27 F	0512 3.6 110 1136 0.4 12 1726 3.1 94 2333 0.2 6	12 Sa	0459 4.4 134 1127 -0.3 -9 1718 3.4 104 2328 -0.7 -21	27 Su	0521 3.6 110 1149 0.3 9 1734 2.8 85 2337 0.0 0
13 Tu	0355 3.5 107 1003 0.3 9 1624 4.3 131 2246 0.2 6	28 W	0506 3.5 107 1121 0.4 12 1723 3.6 110 2340 0.4 12	13 F	0518 4.5 137 1141 -0.3 -9 1740 4.0 122 2353 -0.5 -15	28 Sa	0551 3.8 116 1216 0.3 9 1805 3.1 94	13 Su	0552 4.6 140 1223 -0.5 -15 1811 3.3 101	28 M	0604 3.8 116 1231 0.2 6 1817 2.8 85
14 W	0449 4.0 122 1102 0.0 0 1715 4.5 137 2335 -0.1 -3	29 Th	0543 3.7 113 1202 0.4 12 1800 3.6 110	14 Sa	0610 4.8 146 1236 -0.5 -15 1831 3.9 119	29 Su	0010 0.1 3 0630 4.0 122 1255 0.2 6 1845 3.1 94	14 M ●	0019 -0.8 -24 0644 4.7 143 1316 -0.6 -18 1903 3.3 101	29 Tu O	0019 -0.1 -3 0646 3.9 119 1312 0.1 3 1900 2.9 88
15 Th	0540 4.4 134 1157 -0.3 -9 1805 4.5 137	30 F	0012 0.3 9 0620 3.9 119 1241 0.3 9 1837 3.5 107	15 Su ●	0041 -0.7 -21 0701 5.0 152 1329 -0.6 -18 1922 3.8 116	30 M O	0047 0.1 3 0710 4.1 125 1334 0.2 6 1926 3.1 94	15 Tu	0109 -0.8 -24 0736 4.7 143 1407 -0.6 -18 1954 3.2 98	30 W	0101 -0.2 -6 0728 4.0 122 1353 0.0 0 1943 2.9 88
		31 Sa O	0045 0.3 9 0657 4.0 122 1318 0.3 9 1915 3.5 107							31 Th	0142 -0.2 -6 0811 4.1 125 1435 0.0 0 2026 2.9 88

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Baltimore, Maryland, 2020

Times and Heights of High and Low Waters

April				May				June			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft	h m	ft	h m	ft	h m	ft	h m	ft	h m	ft
1 W	0536 0.2 6 1216 1.4 43 1950 0.4 12	16 Th	0121 1.1 34 0742 0.3 9 1411 1.4 43 2108 0.4 12	1 F	0034 1.2 37 0633 0.4 12 1251 1.6 49 2005 0.4 12	16 Sa	0154 1.4 43 0828 0.5 15 1418 1.3 40 2055 0.5 15	1 M	0217 1.7 52 0906 0.5 15 1425 1.4 43 2054 0.3 9	16 Tu	0309 1.7 52 1005 0.7 21 1451 1.2 37 2100 0.4 12
2 Th	0050 0.9 27 0645 0.2 6 1320 1.4 43 2045 0.3 9	17 F	0220 1.2 37 0852 0.3 9 1512 1.3 40 2152 0.4 12	2 Sa	0133 1.3 40 0752 0.4 12 1355 1.5 46 2052 0.4 12	17 Su	0250 1.5 46 0931 0.5 15 1507 1.3 40 2130 0.5 15	2 Tu	0315 1.9 58 1017 0.5 15 1522 1.4 43 2138 0.2 6	17 W	0356 1.8 55 1102 0.7 21 1539 1.1 34 2136 0.4 12
3 F	0150 1.0 30 0759 0.2 6 1426 1.4 43 2136 0.3 9	18 Sa	0315 1.3 40 0954 0.3 9 1604 1.3 40 2230 0.4 12	3 Su	0231 1.5 46 0907 0.3 9 1457 1.5 46 2137 0.3 9	18 M	0341 1.6 49 1028 0.5 15 1551 1.3 40 2202 0.4 12	3 W	0411 2.0 61 1122 0.4 12 1617 1.3 40 2222 0.2 6	18 Th	0437 1.8 55 1153 0.6 18 1628 1.1 34 2213 0.4 12
4 Sa	0248 1.1 34 0912 0.1 3 1529 1.4 43 2222 0.3 9	19 Su	0406 1.4 43 1047 0.3 9 1647 1.3 40 2303 0.4 12	4 M	0329 1.6 49 1016 0.3 9 1554 1.4 43 2220 0.3 9	19 Tu	0427 1.6 49 1120 0.5 15 1633 1.2 37 2233 0.4 12	4 Th	0504 2.1 64 1223 0.4 12 1712 1.2 37 2306 0.2 6	19 F	0515 1.9 58 1240 0.6 18 1716 1.1 34 2252 0.4 12
5 Su	0345 1.3 40 1019 0.0 0 1627 1.4 43 2305 0.2 6	20 M	0452 1.4 43 1135 0.3 9 1724 1.3 40 2332 0.4 12	5 Tu	0424 1.8 55 1121 0.2 6 1648 1.4 43 2301 0.2 6	20 W	0509 1.7 52 1209 0.5 15 1713 1.2 37 2303 0.4 12	5 F	0555 2.2 67 1319 0.4 12 1806 1.2 37 2352 0.2 6	20 Sa	0551 2.0 61 1322 0.5 15 1805 1.1 34 2333 0.4 12
6 M	0440 1.4 43 1122 0.0 0 1720 1.4 43 2346 0.2 6	21 Tu	0534 1.5 46 1220 0.3 9 1759 1.2 37 2359 0.3 9	6 W	0518 1.9 58 1222 0.2 6 1740 1.3 40 2343 0.2 6	21 Th	0546 1.8 55 1254 0.5 15 1753 1.1 34 2335 0.4 12	6 Sa	0645 2.2 67 1412 0.3 9 1859 1.2 37	21 Su	0628 2.0 61 1403 0.5 15 1852 1.1 34
7 Tu	0533 1.6 49 1222 0.0 0 1810 1.4 43	22 W	0612 1.6 49 1303 0.3 9 1832 1.2 37	7 Th	0610 2.0 61 1321 0.2 6 1830 1.3 40	22 F	0621 1.9 58 1338 0.5 15 1834 1.1 34	7 Su	0040 0.2 6 0733 2.1 64 1502 0.4 12 1952 1.2 37	22 M	0017 0.4 12 0707 2.0 61 1443 0.4 12 1938 1.1 34
8 W	0026 0.1 3 0626 1.7 52 1321 0.0 0 1858 1.3 40	23 Th	0025 0.3 9 0648 1.6 49 1345 0.3 9 1907 1.2 37	8 F	0025 0.1 3 0701 2.1 64 1419 0.2 6 1921 1.2 37	23 Sa	0008 0.4 12 0655 1.9 58 1421 0.4 12 1916 1.1 34	8 M	0131 0.3 9 0822 2.0 61 1549 0.4 12 2045 1.2 37	23 Tu	0105 0.4 12 0749 2.0 61 1522 0.4 12 2026 1.2 37
9 Th	0107 0.1 3 0718 1.8 55 1420 0.0 0 1946 1.3 40	24 F	0053 0.3 9 0722 1.7 52 1428 0.4 12 1943 1.1 34	9 Sa	0109 0.2 6 0751 2.1 64 1514 0.3 9 2012 1.2 37	24 Su	0043 0.4 12 0730 1.9 58 1503 0.4 12 2000 1.1 34	9 Tu	0224 0.4 12 0910 1.9 58 1635 0.4 12 2138 1.3 40	24 W	0157 0.4 12 0834 2.0 61 1601 0.4 12 2115 1.3 40
10 F	0148 0.0 0 0811 1.8 55 1519 0.1 3 2035 1.2 37	25 Sa	0123 0.3 9 0756 1.7 52 1512 0.4 12 2022 1.1 34	10 Su	0156 0.2 6 0842 2.0 61 1609 0.3 9 2106 1.2 37	25 M	0123 0.4 12 0808 1.9 58 1545 0.4 12 2046 1.1 34	10 W	0322 0.5 15 0959 1.8 55 1718 0.5 15 2232 1.3 40	25 Th	0254 0.5 15 0923 1.9 58 1642 0.4 12 2207 1.4 43
11 Sa	0232 0.0 0 0903 1.8 55 1620 0.2 6 2126 1.1 34	26 Su	0156 0.3 9 0832 1.7 52 1557 0.4 12 2105 1.1 34	11 M	0247 0.3 9 0933 1.9 58 1703 0.4 12 2201 1.2 37	26 Tu	0207 0.4 12 0850 1.9 58 1627 0.4 12 2134 1.1 34	11 Th	0424 0.5 15 1049 1.6 49 1759 0.5 15 2327 1.4 43	26 F	0358 0.5 15 1013 1.8 55 1723 0.4 12 2302 1.5 46
12 Su	0319 0.1 3 0958 1.8 55 1721 0.3 9 2220 1.1 34	27 M	0233 0.3 9 0912 1.7 52 1644 0.4 12 2151 1.1 34	12 Tu	0344 0.4 12 1027 1.8 55 1755 0.4 12 2258 1.2 37	27 W	0259 0.5 15 0938 1.9 58 1711 0.4 12 2226 1.2 37	12 F	0531 0.6 18 1138 1.5 46 1838 0.5 15	27 Sa	0510 0.6 18 1106 1.7 52 1805 0.3 9
13 M	0413 0.2 6 1055 1.7 52 1823 0.3 9 2318 1.1 34	28 Tu	0318 0.4 12 0957 1.7 52 1733 0.4 12 2242 1.1 34	13 W	0450 0.4 12 1124 1.6 49 1845 0.5 15 2357 1.3 40	28 Th	0400 0.5 15 1030 1.8 55 1756 0.4 12 2320 1.3 40	13 Sa	0024 1.4 43 0642 0.7 21 1228 1.4 43 1915 0.5 15	28 Su	0001 1.6 49 0629 0.6 18 1201 1.6 49 1848 0.3 9
14 Tu	0515 0.2 6 1157 1.5 46 1922 0.4 12	29 W	0411 0.4 12 1049 1.7 52 1824 0.4 12 2336 1.1 34	14 Th	0603 0.5 15 1223 1.5 46 1933 0.5 15	29 F	0511 0.5 15 1127 1.7 52 1841 0.4 12	14 Su	0122 1.5 46 0754 0.7 21 1316 1.3 40 1950 0.5 15	29 M	0102 1.7 52 0750 0.6 18 1257 1.4 43 1932 0.3 9
15 W	0019 1.1 34 0627 0.3 9 1303 1.4 43 2018 0.4 12	30 Th	0517 0.4 12 1148 1.6 49 1915 0.4 12	15 F	0056 1.3 40 0717 0.5 15 1322 1.4 43 2016 0.5 15	30 Sa	0018 1.4 43 0629 0.5 15 1226 1.6 49 1926 0.4 12	15 M	0217 1.6 49 0902 0.7 21 1404 1.3 40 2025 0.4 12	30 Tu	0203 1.9 58 0907 0.6 18 1355 1.3 40 2017 0.2 6
						31 Su	0117 1.5 46 0749 0.5 15 1326 1.5 46 2011 0.3 9				

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Baltimore, Maryland, 2020

Times and Heights of High and Low Waters

October				November				December			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm
1 Th	0009 0.5 15 0608 1.6 49 1241 0.5 15 1830 1.6 49	16 F	0531 1.6 49 1201 0.2 6 1807 1.8 55	1 Su	0132 0.5 15 0636 1.2 37 1240 0.2 6 1922 1.6 49	16 M	0152 0.2 6 0641 1.1 34 1244 -0.2 -6 1934 1.9 58	1 Tu	0207 0.2 6 0645 0.8 24 1235 -0.1 -3 1929 1.5 46	16 W	0237 0.0 0 0714 0.7 21 1313 -0.4 -12 2010 1.6 49
2 F	0054 0.5 15 0640 1.6 49 1305 0.4 12 1910 1.7 52	17 Sa	0051 0.3 9 0618 1.6 49 1239 0.1 3 1859 2.0 61	2 M	0217 0.5 15 0711 1.1 34 1308 0.1 3 1955 1.7 52	17 Tu	0251 0.2 6 0733 1.0 30 1331 -0.2 -6 2026 1.9 58	2 W	0249 0.2 6 0727 0.7 21 1311 -0.1 -3 2004 1.5 46	17 Th	0328 0.0 0 0807 0.7 21 1406 -0.3 -9 2100 1.5 46
3 Sa	0137 0.6 18 0711 1.5 46 1327 0.4 12 1948 1.7 52	18 Su	0153 0.4 12 0706 1.4 43 1319 0.1 3 1951 2.0 61	3 Tu	0302 0.5 15 0749 1.1 34 1339 0.2 6 2030 1.7 52	18 W	0348 0.2 6 0826 0.9 27 1421 -0.1 -3 2119 1.8 55	3 Th	0331 0.2 6 0811 0.7 21 1351 -0.1 -3 2044 1.5 46	18 F	0417 0.0 0 0901 0.7 21 1501 -0.3 -9 2151 1.3 40
4 Su	0221 0.7 21 0743 1.4 43 1352 0.4 12 2025 1.7 52	19 M	0256 0.4 12 0754 1.3 40 1401 0.1 3 2044 2.1 64	4 W	0348 0.5 15 0831 1.0 30 1414 0.2 6 2107 1.7 52	19 Th	0445 0.2 6 0922 0.9 27 1516 0.0 0 2214 1.7 52	4 F	0413 0.2 6 0857 0.7 21 1436 0.0 0 2127 1.4 43	19 Sa	0504 0.0 0 0956 0.7 21 1559 -0.2 -6 2241 1.2 37
5 M	0308 0.7 21 0817 1.4 43 1419 0.3 9 2101 1.8 55	20 Tu	0359 0.4 12 0846 1.2 37 1447 0.1 3 2139 2.0 61	5 Th	0437 0.5 15 0916 1.0 30 1454 0.2 6 2149 1.7 52	20 F	0541 0.2 6 1021 0.9 27 1618 0.0 0 2311 1.5 46	5 Sa	0457 0.1 3 0947 0.7 21 1528 0.0 0 2215 1.4 43	20 Su	0550 0.0 0 1053 0.7 21 1700 -0.1 -3 2329 1.1 34
6 Tu	0358 0.7 21 0854 1.3 40 1450 0.4 12 2140 1.8 55	21 W	0504 0.5 15 0941 1.2 37 1538 0.1 3 2236 1.9 58	6 F	0526 0.5 15 1006 0.9 27 1541 0.2 6 2237 1.6 49	21 Sa	0635 0.2 6 1123 0.9 27 1726 0.1 3	6 Su	0541 0.1 3 1041 0.8 24 1628 0.0 0 2306 1.3 40	21 M	0634 0.0 0 1153 0.8 24 1806 0.0 0
7 W	0453 0.7 21 0937 1.2 37 1527 0.4 12 2221 1.8 55	22 Th	0608 0.5 15 1041 1.1 34 1637 0.2 6 2337 1.8 55	7 Sa	0617 0.4 12 1101 0.9 27 1638 0.3 9 2330 1.6 49	22 Su	0009 1.4 43 0726 0.2 6 1227 0.9 27 1839 0.2 6	7 M	0625 0.1 3 1139 0.8 24 1738 0.1 3	22 Tu	0017 1.0 30 0714 0.0 0 1256 0.8 24 1917 0.1 3
8 Th	0552 0.7 21 1025 1.1 34 1609 0.4 12 2308 1.8 55	23 F	0709 0.5 15 1145 1.1 34 1746 0.3 9	8 Su	0706 0.4 12 1201 1.0 30 1747 0.3 9	23 M	0105 1.3 40 0812 0.2 6 1331 1.0 30 1951 0.2 6	8 Tu	0000 1.3 40 0709 0.0 0 1241 0.9 27 1856 0.1 3	23 W	0103 0.9 27 0751 -0.1 -3 1358 0.9 27 2028 0.2 6
9 F	0651 0.7 21 1121 1.1 34 1701 0.4 12	24 Sa	0041 1.7 52 0806 0.5 15 1252 1.1 34 1901 0.4 12	9 M	0028 1.6 49 0753 0.3 9 1303 1.1 34 1904 0.3 9	24 Tu	0157 1.2 37 0853 0.2 6 1433 1.1 34 2058 0.3 9	9 W	0055 1.2 37 0752 -0.1 -3 1344 1.1 34 2016 0.1 3	24 Th	0148 0.8 24 0827 -0.2 -6 1458 1.0 30 2136 0.2 6
10 Sa	0001 1.8 55 0747 0.7 21 1223 1.1 34 1805 0.5 15	25 Su	0145 1.6 49 0858 0.5 15 1358 1.2 37 2014 0.4 12	10 Tu	0126 1.5 46 0838 0.3 9 1404 1.2 37 2021 0.3 9	25 W	0244 1.1 34 0929 0.1 3 1530 1.1 34 2200 0.3 9	10 Th	0151 1.1 34 0835 -0.2 -6 1446 1.2 37 2133 0.1 3	25 F	0233 0.7 21 0902 -0.2 -6 1551 1.0 30 2237 0.2 6
11 Su	0059 1.8 55 0839 0.6 18 1326 1.2 37 1917 0.5 15	26 M	0244 1.6 49 0943 0.4 12 1459 1.2 37 2120 0.4 12	11 W	0224 1.5 46 0919 0.2 6 1504 1.3 40 2135 0.3 9	26 Th	0327 1.1 34 1001 0.1 3 1622 1.2 37 2257 0.3 9	11 F	0246 1.0 30 0918 -0.3 -9 1545 1.4 43 2244 0.1 3	26 Sa	0319 0.7 21 0937 -0.3 -9 1637 1.1 34 2332 0.1 3
12 M	0159 1.8 55 0924 0.5 15 1427 1.2 37 2031 0.4 12	27 Tu	0334 1.5 46 1022 0.4 12 1554 1.3 40 2219 0.4 12	12 Th	0318 1.4 43 0959 0.1 3 1602 1.5 46 2244 0.2 6	27 F	0407 1.0 30 1030 0.0 0 1706 1.3 40 2349 0.3 9	12 Sa	0340 0.9 27 1001 -0.4 -12 1642 1.5 46 2349 0.0 0	27 Su	0405 0.6 18 1014 -0.3 -9 1717 1.2 37
13 Tu	0257 1.7 52 1006 0.5 15 1525 1.4 43 2141 0.4 12	28 W	0417 1.4 43 1055 0.4 12 1644 1.4 43 2311 0.4 12	13 F	0410 1.3 40 1039 0.0 0 1657 1.7 52 2349 0.2 6	28 Sa	0446 0.9 27 1059 -0.1 -3 1746 1.4 43	13 Su	0434 0.8 24 1047 -0.4 -12 1736 1.6 49	28 M	0020 0.1 3 0452 0.6 18 1052 -0.3 -9 1754 1.2 37
14 W	0352 1.7 52 1045 0.4 12 1621 1.5 46 2247 0.4 12	29 Th	0454 1.4 43 1124 0.3 9 1729 1.5 46	14 Sa	0501 1.2 37 1119 -0.1 -3 1750 1.8 55	29 Su	0037 0.3 9 0525 0.9 27 1129 -0.1 -3 1822 1.4 43	14 M	0049 0.0 0 0528 0.8 24 1134 -0.5 -15 1828 1.7 52	29 Tu	0104 0.0 0 0538 0.6 18 1132 -0.3 -9 1830 1.3 40
15 Th	0443 1.7 52 1123 0.3 9 1714 1.7 52 2350 0.3 9	30 F	0000 0.4 12 0528 1.3 40 1149 0.2 6 1810 1.5 46	15 Su	0052 0.2 6 0551 1.1 34 1201 -0.2 -6 1842 1.9 58	30 M	0123 0.3 9 0605 0.8 24 1201 -0.1 -3 1855 1.5 46	15 Tu	0145 0.0 0 0621 0.7 21 1222 -0.4 -12 1919 1.6 49	30 W	0145 0.0 0 0623 0.6 18 1213 -0.3 -9 1906 1.3 40
		31 Sa	0046 0.5 15 0602 1.3 40 1214 0.2 6 1847 1.6 49						31 Th	0224 0.0 0 0707 0.6 18 1256 -0.3 -9 1945 1.3 40	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Washington, D.C., 2020

Times and Heights of High and Low Waters

October				November				December						
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height	
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm
1 Th O	0209	0.2	6		16 F	0149	0.0	0		1 Su	0308	0.2	6	
	0735	3.2	98			0703	3.3	101			0826	2.8	85	
	1428	0.2	6			1404	-0.1	-3			1457	0.2	6	
	1955	3.2	98			1926	3.6	110			2032	3.1	94	
2 F	0252	0.3	9		17 Sa	0243	-0.1	-3		2 M	0347	0.2	6	
	0814	3.1	94			0753	3.3	101			0901	2.7	82	
	1502	0.3	9			1451	-0.1	-3			1527	0.2	6	
	2031	3.2	98			2013	3.7	113			2101	3.1	94	
3 Sa	0332	0.3	9		18 Su	0336	-0.1	-3		3 Tu	0424	0.3	9	
	0852	3.0	91			0843	3.3	101			0935	2.7	82	
	1532	0.3	9			1538	-0.1	-3			1558	0.2	6	
	2104	3.2	98			2101	3.7	113			2131	3.1	94	
4 Su	0410	0.4	12		19 M	0429	-0.1	-3		4 W	0501	0.3	9	
	0927	3.0	91			0934	3.2	98			1008	2.6	79	
	1559	0.3	9			1626	-0.1	-3			1634	0.3	9	
	2134	3.2	98			2149	3.6	110			2206	3.1	94	
5 M	0446	0.5	15		20 Tu	0523	0.0	0		5 Th	0539	0.4	12	
	1000	2.9	88			1026	3.0	91			1045	2.6	79	
	1625	0.4	12			1717	0.0	0			1716	0.3	9	
	2202	3.2	98			2241	3.5	107			2247	3.0	91	
6 Tu	0521	0.5	15		21 W	0617	0.1	3		6 F	0621	0.4	12	
	1034	2.8	85			1122	2.9	88			1128	2.5	76	
	1657	0.4	12			1812	0.2	6			1804	0.4	12	
	2235	3.2	98			2337	3.3	101			2336	3.0	91	
7 W	0557	0.6	18		22 Th	0714	0.2	6		7 Sa	0710	0.4	12	
	1111	2.7	82			1222	2.8	85			1219	2.5	76	
	1736	0.5	15			1911	0.3	9			1859	0.4	12	
	2314	3.1	94											
8 Th	0640	0.6	18		23 F	0040	3.1	94		8 Su	0031	2.9	88	
	1155	2.6	79			0811	0.2	6			0805	0.4	12	
	1823	0.5	15			1326	2.7	82			1318	2.5	76	
						2013	0.3	9			2003	0.4	12	
9 F	0001	3.1	94		24 Sa	0147	3.0	91		9 M	0135	2.9	88	
	0733	0.7	21			0909	0.3	9			0904	0.3	9	
	1247	2.6	79			1431	2.7	82			1423	2.6	79	
	1917	0.6	18			2116	0.4	12			2114	0.3	9	
10 Sa	0056	3.0	91		25 Su	0254	2.9	88		10 Tu	0244	2.9	88	
	0835	0.7	21			1005	0.3	9			1002	0.2	6	
	1349	2.6	79			1532	2.7	82			1526	2.8	85	
	2020	0.6	18			2218	0.3	9			2227	0.2	6	
11 Su	0201	3.0	91		26 M	0357	2.9	88		11 W	0351	2.9	88	
	0939	0.6	18			1059	0.3	9			1059	0.1	3	
	1456	2.7	82			1628	2.8	85			1625	3.0	91	
	2132	0.5	15			2315	0.3	9			2333	0.1	3	
12 M	0311	3.0	91		27 Tu	0452	2.9	88		12 Th	0452	2.9	88	
	1040	0.5	15			1148	0.2	6			1152	-0.1	-3	
	1559	2.8	85			1719	2.9	88			1720	3.2	98	
	2246	0.4	12											
13 Tu	0418	3.1	94		28 W	0009	0.2	6		13 F	0035	-0.1	-3	
	1136	0.3	9			0542	2.9	88			0549	3.0	91	
	1656	3.0	91			1233	0.2	6			1244	-0.2	-6	
	2353	0.3	9			1806	3.0	91			1811	3.4	104	
14 W	0518	3.2	98		29 Th	0059	0.2	6		14 Sa	0132	-0.2	-6	
	1228	0.2	6			0627	2.9	88			0642	3.0	91	
	1748	3.2	98			1314	0.1	3			1335	-0.2	-6	
						1848	3.1	94			1901	3.5	107	
15 Th	0053	0.1	3		30 F	0145	0.2	6		15 Su	0227	-0.3	-9	
	0612	3.3	101			0710	2.9	88			0734	3.0	91	
	1317	0.0	0			1351	0.1	3			1425	-0.3	-9	
	1838	3.4	104			1926	3.1	94			1950	3.5	107	
					31 Sa	0228	0.2	6						
						0749	2.8	85						
						1426	0.2	6						
						2001	3.1	94						
					31 O									

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Hampton Roads (Sewells Pt.), Virginia, 2020

Times and Heights of High and Low Waters

January				February				March			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft	h m	ft	h m	ft	h m	ft	h m	ft	h m	ft
1 W	0056 2.0 0707 0.3 1319 2.1 1938 0.1	16 Th	0111 2.5 0725 -0.2 1333 2.4 1952 -0.3	1 Sa	0142 2.1 0807 0.3 1402 1.9 2015 0.2	16 Su	0252 2.6 0917 0.1 1513 2.0 2122 -0.1	1 Su	0057 2.3 0726 0.4 1319 2.0 1928 0.2	16 M	0228 2.7 0854 0.2 1451 2.1 2059 0.2
2 Th	0144 2.0 0800 0.3 1406 2.0 2023 0.2	17 F	0211 2.5 0830 -0.1 1432 2.2 2048 -0.3	2 Su	0233 2.1 0905 0.4 1455 1.8 2106 0.2	17 M	0359 2.5 1024 0.2 1620 2.0 2226 0.0	2 M	0147 2.3 0821 0.4 1411 1.9 2020 0.3	17 Tu	0336 2.5 1000 0.3 1559 2.0 2206 0.2
3 F	0236 2.0 0858 0.4 1457 1.9 2111 0.2	18 Sa	0315 2.5 0937 0.0 1535 2.1 2147 -0.2	3 M	0331 2.2 1007 0.4 1555 1.8 2202 0.1	18 Tu	0505 2.5 1128 0.2 1724 2.0 2329 0.0	3 Tu	0245 2.3 0924 0.5 1512 1.9 2121 0.3	18 W	0444 2.5 1104 0.4 1704 2.1 2311 0.3
4 Sa	0331 2.1 0957 0.4 1551 1.8 2201 0.1	19 Su	0419 2.5 1043 0.0 1639 2.0 2246 -0.2	4 Tu	0432 2.2 1110 0.3 1656 1.8 2301 0.0	19 W	0606 2.5 1226 0.1 1823 2.0	4 W	0351 2.4 1031 0.4 1619 1.9 2227 0.2	19 Th	0546 2.5 1200 0.3 1802 2.2
5 Su	0425 2.1 1056 0.3 1646 1.8 2251 0.1	20 M	0522 2.6 1146 0.0 1741 2.0 2345 -0.2	5 W	0533 2.4 1208 0.2 1756 1.9 2358 -0.1	20 Th	0026 0.0 0700 2.6 1317 0.1 1914 2.1	5 Th	0459 2.5 1134 0.3 1725 2.1 2331 0.0	20 F	0009 0.2 0639 2.5 1249 0.3 1852 2.3
6 M	0519 2.3 1151 0.2 1740 1.8 2341 0.0	21 Tu	0620 2.6 1244 -0.1 1838 2.0	6 Th	0630 2.6 1302 0.0 1852 2.1	21 F	0118 -0.1 0748 2.6 1401 0.0 1959 2.2	6 F	0601 2.7 1230 0.1 1825 2.3	21 Sa	0101 0.1 0724 2.6 1331 0.2 1936 2.4
7 Tu	0610 2.4 1242 0.1 1831 1.9	22 W	0040 -0.2 0714 2.7 1335 -0.1 1930 2.1	7 F	0054 -0.2 0723 2.7 1351 -0.2 1944 2.2	22 Sa	0204 -0.1 0830 2.6 1441 0.0 2040 2.3	7 Sa	0033 -0.1 0659 2.8 1322 -0.1 1921 2.5	22 Su	0146 0.1 0804 2.6 1409 0.1 2015 2.5
8 W	0030 -0.1 0659 2.6 1331 0.0 1920 2.0	23 Th	0131 -0.3 0803 2.7 1422 -0.2 2017 2.1	8 Sa	0147 -0.4 0814 2.9 1439 -0.3 2035 2.4	23 Su	0247 -0.1 0908 2.6 1517 -0.1 2117 2.4	8 Su	0130 -0.3 0752 3.0 1411 -0.3 2013 2.8	23 M	0227 0.0 0841 2.6 1444 0.1 2051 2.6
9 Th	0119 -0.2 0746 2.7 1417 -0.2 2008 2.1	24 F	0219 -0.3 0848 2.7 1505 -0.2 2100 2.1	9 Su	0240 -0.5 0902 3.0 1525 -0.5 2124 2.6	24 M	0326 -0.1 0943 2.6 1552 -0.1 2153 2.4	9 M	0224 -0.5 0842 3.0 1457 -0.4 2104 3.0	24 Tu	0305 0.0 0916 2.6 1518 0.0 2125 2.6
10 F	0207 -0.3 0833 2.8 1503 -0.3 2055 2.2	25 Sa	0303 -0.3 0929 2.7 1545 -0.2 2140 2.2	10 M	0331 -0.6 0950 3.0 1610 -0.5 2214 2.7	25 Tu	0405 -0.1 1017 2.5 1625 -0.1 2228 2.4	10 Tu	0317 -0.5 0931 3.0 1543 -0.5 2153 3.1	25 W	0342 0.0 0949 2.5 1551 0.1 2158 2.7
11 Sa	0255 -0.4 0920 2.9 1548 -0.4 2142 2.3	26 Su	0345 -0.2 1008 2.6 1623 -0.2 2219 2.2	11 Tu	0423 -0.6 1038 2.9 1656 -0.5 2304 2.8	26 W	0442 0.0 1050 2.4 1658 0.0 2302 2.4	11 W	0409 -0.5 1019 3.0 1630 -0.5 2243 3.1	26 Th	0418 0.1 1021 2.5 1623 0.1 2231 2.7
12 Su	0344 -0.5 1007 2.9 1634 -0.4 2231 2.4	27 M	0426 -0.2 1045 2.5 1659 -0.1 2257 2.2	12 W	0516 -0.5 1127 2.8 1743 -0.5 2356 2.8	27 Th	0519 0.1 1123 2.3 1731 0.0 2337 2.4	12 Th	0502 -0.5 1108 2.8 1717 -0.4 2334 3.1	27 F	0454 0.1 1054 2.4 1656 0.1 2305 2.6
13 M	0435 -0.5 1055 2.9 1721 -0.4 2322 2.4	28 Tu	0506 -0.1 1121 2.4 1735 -0.1 2335 2.2	13 Th	0611 -0.4 1218 2.6 1832 -0.4	28 F	0557 0.2 1158 2.2 1806 0.1	13 F	0555 -0.3 1158 2.6 1806 -0.3	28 Sa	0531 0.2 1128 2.3 1731 0.2 2342 2.6
14 Tu	0528 -0.4 1145 2.7 1808 -0.4	29 W	0547 0.0 1157 2.2 1811 0.0	14 F	0050 2.8 0709 -0.2 1312 2.4 1924 -0.3	29 Sa	0015 2.4 0639 0.3 1235 2.1 1844 0.2	14 Sa	0028 3.0 0651 -0.1 1251 2.4 1859 -0.1	29 Su	0611 0.3 1206 2.2 1809 0.3
15 W	0015 2.5 0625 -0.3 1237 2.6 1859 -0.4	30 Th	0014 2.1 0629 0.2 1234 2.1 1849 0.1	15 Sa	0149 2.7 0811 -0.1 1410 2.2 2021 -0.2	15 Su	0125 2.8 0750 0.1 1348 2.2 1956 0.0	15 Su	0125 2.8 0750 0.1 1348 2.2 1956 0.0	30 M	0024 2.6 0657 0.4 1249 2.1 1854 0.3
		31 F	0056 2.1 0715 0.3 1315 2.0 1929 0.1							31 Tu	0114 2.5 0751 0.5 1342 2.1 1948 0.4

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Hampton Roads (Sewells Pt.), Virginia, 2020

Times and Heights of High and Low Waters

July				August				September			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft	h m	ft	h m	ft	h m	ft	h m	ft	h m	ft
1 W	0521 2.3 1126 -0.1 1757 3.0	16 Th	0521 2.0 1119 0.3 1749 2.6	1 Sa	0107 0.1 0703 2.4 1303 0.0 1935 3.1	16 Su	0040 0.4 0631 2.3 1231 0.3 1858 3.0	1 Tu	0218 0.2 0821 2.7 1427 0.2 2046 3.0	16 W	0142 0.1 0747 3.0 1357 0.0 2011 3.2
2 Th	0025 0.0 0620 2.3 1222 -0.1 1854 3.1	17 F	0024 0.4 0613 2.1 1210 0.3 1838 2.7	2 Su	0157 0.1 0754 2.4 1355 0.0 2024 3.1	17 M	0128 0.2 0723 2.5 1324 0.1 1948 3.1	2 W	0256 0.2 0900 2.8 1509 0.2 2124 2.9	17 Th	0228 -0.1 0836 3.2 1449 -0.1 2100 3.3
3 F	0121 -0.1 0716 2.4 1317 -0.1 1947 3.1	18 Sa	0113 0.3 0703 2.2 1259 0.2 1926 2.8	3 M	0243 0.1 0841 2.5 1444 0.0 2109 3.0	18 Tu	0214 0.1 0812 2.7 1415 0.0 2036 3.2	3 Th	0332 0.2 0938 2.8 1550 0.3 2200 2.8	18 F	0313 -0.2 0925 3.4 1541 -0.2 2148 3.2
4 Sa	0213 -0.1 0809 2.4 1409 -0.1 2039 3.1	19 Su	0159 0.2 0751 2.3 1347 0.1 2013 2.9	4 Tu	0325 0.1 0925 2.5 1530 0.1 2150 2.9	19 W	0259 0.0 0900 2.9 1507 -0.1 2123 3.2	4 F	0407 0.2 1014 2.8 1629 0.3 2234 2.7	19 Sa	0359 -0.2 1015 3.5 1634 -0.1 2237 3.1
5 Su	0303 -0.1 0859 2.4 1500 -0.1 2127 3.1	20 M	0244 0.1 0837 2.4 1435 0.0 2058 3.0	5 W	0405 0.1 1007 2.6 1613 0.2 2230 2.8	20 Th	0343 -0.1 0948 3.0 1558 -0.1 2210 3.2	5 Sa	0441 0.3 1049 2.8 1708 0.4 2309 2.6	20 Su	0446 -0.1 1106 3.5 1728 0.0 2328 2.9
6 M	0350 -0.1 0947 2.4 1548 -0.1 2214 3.0	21 Tu	0328 0.0 0923 2.5 1524 0.0 2144 3.0	6 Th	0443 0.1 1047 2.6 1656 0.2 2308 2.7	21 F	0428 -0.2 1037 3.1 1650 -0.1 2259 3.1	6 Su	0515 0.4 1125 2.8 1748 0.5 2345 2.5	21 M	0536 0.0 1200 3.4 1825 0.1
7 Tu	0434 0.0 1033 2.4 1636 0.0 2258 2.8	22 W	0411 -0.1 1010 2.6 1613 -0.1 2230 3.0	7 F	0520 0.2 1126 2.6 1739 0.4 2346 2.5	22 Sa	0514 -0.2 1128 3.2 1745 0.0 2349 2.9	7 M	0551 0.5 1203 2.7 1830 0.6	22 Tu	0022 2.7 0629 0.1 1257 3.2 1925 0.3
8 W	0517 0.0 1118 2.4 1723 0.2 2341 2.7	23 Th	0456 -0.1 1058 2.7 1705 -0.1 2318 2.9	8 Sa	0557 0.3 1205 2.6 1823 0.5	23 Su	0602 -0.1 1221 3.2 1842 0.1	8 Tu	0023 2.3 0629 0.5 1245 2.7 1918 0.7	23 W	0121 2.6 0727 0.3 1400 3.1 2029 0.4
9 Th	0559 0.1 1202 2.4 1811 0.3	24 F	0541 -0.1 1149 2.8 1759 0.0	9 Su	0024 2.4 0634 0.3 1246 2.5 1909 0.6	24 M	0042 2.7 0653 0.0 1318 3.1 1942 0.2	9 W	0107 2.2 0713 0.6 1333 2.6 2011 0.8	24 Th	0225 2.4 0831 0.4 1507 3.0 2135 0.5
10 F	0024 2.5 0640 0.2 1247 2.3 1859 0.4	25 Sa	0008 2.8 0628 -0.1 1242 2.8 1856 0.1	10 M	0105 2.3 0715 0.4 1331 2.5 1959 0.7	25 Tu	0139 2.6 0748 0.1 1419 3.1 2047 0.3	10 Th	0158 2.2 0803 0.7 1429 2.6 2111 0.8	25 F	0334 2.4 0938 0.5 1615 2.9 2238 0.5
11 Sa	0108 2.3 0721 0.3 1333 2.3 1951 0.5	26 Su	0101 2.7 0718 -0.1 1338 2.9 1958 0.1	11 Tu	0150 2.2 0759 0.5 1420 2.5 2054 0.7	26 W	0241 2.4 0849 0.2 1524 3.0 2153 0.4	11 F	0257 2.1 0902 0.7 1531 2.7 2213 0.8	26 Sa	0440 2.4 1044 0.5 1717 2.9 2335 0.5
12 Su	0153 2.2 0804 0.3 1421 2.3 2045 0.6	27 M	0157 2.5 0811 0.0 1437 2.9 2102 0.2	12 W	0242 2.1 0848 0.5 1514 2.5 2153 0.7	27 Th	0348 2.3 0953 0.3 1630 3.0 2257 0.4	12 Sa	0401 2.2 1005 0.6 1635 2.8 2312 0.6	27 Su	0540 2.5 1145 0.5 1812 2.9
13 M	0241 2.1 0850 0.4 1512 2.4 2141 0.6	28 Tu	0258 2.4 0908 0.0 1540 2.9 2207 0.2	13 Th	0339 2.1 0942 0.5 1612 2.6 2252 0.7	28 F	0454 2.3 1057 0.3 1733 3.0 2357 0.4	13 Su	0504 2.3 1107 0.5 1735 2.9	28 M	0025 0.4 0632 2.6 1238 0.4 1859 2.9
14 Tu	0333 2.0 0938 0.4 1604 2.4 2238 0.6	29 W	0402 2.3 1008 0.1 1643 3.0 2311 0.2	14 F	0438 2.1 1039 0.5 1711 2.7 2348 0.5	29 Sa	0555 2.4 1157 0.3 1830 3.0	14 M	0006 0.5 0602 2.5 1207 0.3 1830 3.0	29 Tu	0108 0.4 0716 2.7 1325 0.3 1941 2.9
15 W	0427 2.0 1028 0.4 1657 2.5 2332 0.5	30 Th	0506 2.3 1109 0.1 1744 3.0	15 Sa	0536 2.2 1136 0.4 1806 2.8	30 Su	0049 0.3 0649 2.5 1252 0.3 1920 3.0	15 Tu	0055 0.3 0656 2.8 1303 0.1 1922 3.2	30 W	0147 0.3 0756 2.8 1408 0.3 2019 2.9
		31 F	0012 0.2 0606 2.3 1208 0.1 1842 3.0			31 M	0136 0.3 0737 2.6 1342 0.2 2005 3.0				

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Duck Pier, North Carolina, 2020

Times and Heights of High and Low Waters

April				May				June			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm
1 W O	0028 3.3 101 0704 0.5 15 1301 2.6 79 1906 0.4 12	16 Th	0228 3.1 94 0901 0.5 15 1508 2.7 82 2117 0.6 18	1 F	0105 3.4 104 0740 0.3 9 1347 2.9 88 1955 0.3 9	16 Sa	0240 2.9 88 0902 0.5 15 1523 2.9 88 2142 0.6 18	1 M	0248 3.2 98 0907 -0.2 -6 1531 3.8 116 2155 -0.1 -3	16 Tu	0327 2.6 79 0928 0.4 12 1605 3.3 101 2238 0.5 15
2 Th	0132 3.3 101 0809 0.4 12 1407 2.7 82 2013 0.3 9	17 F	0332 3.1 94 0956 0.5 15 1605 2.9 88 2217 0.5 15	2 Sa	0210 3.4 104 0840 0.1 3 1451 3.2 98 2104 0.1 3	17 Su	0335 2.8 85 0946 0.4 12 1610 3.1 94 2233 0.5 15	2 Tu	0350 3.2 98 1002 -0.3 -9 1629 4.1 125 2257 -0.3 -9	17 W	0417 2.6 79 1011 0.3 9 1647 3.5 107 2322 0.4 12
3 F	0239 3.4 104 0912 0.3 9 1513 2.9 88 2121 0.1 3	18 Sa	0425 3.1 94 1041 0.4 12 1652 3.0 91 2306 0.4 12	3 Su	0314 3.4 104 0938 -0.1 -3 1552 3.6 110 2209 -0.1 -3	18 M	0422 2.8 85 1025 0.3 9 1651 3.3 101 2317 0.4 12	3 W	0449 3.2 98 1056 -0.4 -12 1723 4.3 131 2354 -0.4 -12	18 Th	0504 2.6 79 1055 0.2 6 1728 3.6 110
4 Sa	0343 3.6 110 1011 0.0 0 1615 3.3 101 2225 -0.2 -6	19 Su	0509 3.1 94 1119 0.3 9 1731 3.2 98 2348 0.3 9	4 M	0415 3.5 107 1032 -0.3 -9 1649 4.0 122 2310 -0.4 -12	19 Tu	0505 2.8 85 1102 0.3 9 1728 3.5 107 2357 0.3 9	4 Th	0546 3.2 98 1148 -0.5 -15 1815 4.4 134	19 F	0004 0.2 6 0550 2.7 82 1138 0.2 6 1808 3.8 116
5 Su	0442 3.7 113 1104 -0.2 -6 1711 3.7 113 2325 -0.5 -15	20 M	0548 3.1 94 1152 0.2 6 1806 3.4 104	5 Tu	0512 3.6 110 1123 -0.5 -15 1742 4.3 131	20 W	0545 2.8 85 1138 0.2 6 1804 3.6 110	5 F O	0048 -0.5 -15 0639 3.2 98 1239 -0.4 -12 1905 4.5 137	20 Sa	0044 0.1 3 0633 2.8 85 1221 0.1 3 1849 3.9 119
6 M	0537 3.9 119 1153 -0.5 -15 1804 4.0 122	21 Tu	0026 0.2 6 0623 3.1 94 1223 0.1 3 1839 3.5 107	6 W	0007 -0.6 -18 0606 3.6 110 1213 -0.6 -18 1833 4.5 137	21 Th	0034 0.2 6 0624 2.9 88 1215 0.1 3 1840 3.7 113	6 Sa	0140 -0.5 -15 0731 3.2 98 1330 -0.4 -12 1954 4.4 134	21 Su ●	0125 0.0 0 0716 2.8 85 1305 0.0 0 1931 3.9 119
7 Tu O	0020 -0.7 -21 0629 3.9 119 1241 -0.7 -21 1854 4.3 131	22 W ●	0101 0.1 3 0657 3.1 94 1254 0.1 3 1912 3.6 110	7 Th O	0101 -0.7 -21 0658 3.6 110 1302 -0.6 -18 1923 4.6 140	22 F ●	0111 0.1 3 0703 2.9 88 1252 0.1 3 1916 3.8 116	7 Su	0229 -0.5 -15 0822 3.1 94 1420 -0.2 -6 2043 4.2 128	22 M	0206 -0.1 -3 0800 2.9 88 1350 0.0 0 2013 4.0 122
8 W	0114 -0.8 -24 0719 3.9 119 1328 -0.7 -21 1944 4.5 137	23 Th	0135 0.1 3 0731 3.1 94 1327 0.1 3 1945 3.7 113	8 F	0153 -0.7 -21 0748 3.5 107 1351 -0.5 -15 2012 4.5 137	23 Sa	0148 0.0 0 0741 2.9 88 1331 0.1 3 1953 3.8 116	8 M	0318 -0.3 -9 0912 3.1 94 1511 0.0 0 2131 3.9 119	23 Tu	0248 -0.2 -6 0844 3.0 91 1437 0.0 0 2058 3.9 119
9 Th	0207 -0.8 -24 0808 3.8 116 1416 -0.7 -21 2033 4.5 137	24 F	0210 0.1 3 0806 3.0 91 1400 0.1 3 2019 3.7 113	9 Sa	0244 -0.6 -18 0839 3.4 104 1440 -0.4 -12 2102 4.4 134	24 Su	0226 0.0 0 0821 2.8 85 1411 0.1 3 2033 3.8 116	9 Tu	0406 -0.2 -6 1002 3.0 91 1602 0.2 6 2219 3.7 113	24 W	0332 -0.2 -6 0931 3.0 91 1527 0.0 0 2144 3.8 116
10 F	0259 -0.7 -21 0857 3.6 110 1504 -0.5 -15 2123 4.4 134	25 Sa	0245 0.1 3 0842 2.9 88 1436 0.2 6 2055 3.7 113	10 Su	0336 -0.4 -12 0930 3.2 98 1531 -0.2 -6 2153 4.1 125	25 M	0306 0.0 0 0902 2.8 85 1454 0.2 6 2114 3.8 116	10 W	0454 0.0 0 1054 2.9 88 1655 0.4 12 2307 3.4 104	25 Th	0417 -0.2 -6 1021 3.1 94 1620 0.1 3 2233 3.7 113
11 Sa	0352 -0.5 -15 0948 3.4 104 1554 -0.3 -9 2215 4.1 125	26 Su	0324 0.1 3 0921 2.8 85 1515 0.3 9 2134 3.6 110	11 M	0428 -0.2 -6 1023 3.0 91 1624 0.1 3 2245 3.8 116	26 Tu	0349 0.0 0 0946 2.8 85 1540 0.2 6 2200 3.7 113	11 Th	0541 0.2 6 1147 2.8 85 1751 0.6 18 2357 3.1 94	26 F	0505 -0.2 -6 1114 3.2 98 1718 0.1 3 2326 3.5 107
12 Su	0447 -0.2 -6 1041 3.1 94 1647 0.0 0 2310 3.8 116	27 M	0405 0.2 6 1002 2.8 85 1558 0.3 9 2218 3.5 107	12 Tu	0522 0.0 0 1119 2.9 88 1722 0.4 12 2340 3.5 107	27 W	0435 0.0 0 1035 2.8 85 1632 0.3 9 2249 3.6 110	12 F	0627 0.3 9 1242 2.8 85 1851 0.7 21	27 Sa	0556 -0.2 -6 1211 3.4 104 1821 0.2 6
13 M	0546 0.1 3 1139 2.9 88 1746 0.2 6	28 Tu	0451 0.3 9 1049 2.7 82 1646 0.4 12 2307 3.5 107	13 W	0619 0.2 6 1220 2.8 85 1825 0.5 15	28 Th	0525 0.1 3 1128 2.9 88 1729 0.3 9 2344 3.5 107	13 Sa O	0048 2.9 88 0713 0.4 12 1337 2.9 88 1954 0.8 24	28 Su O	0022 3.3 101 0648 -0.2 -6 1310 3.5 107 1928 0.2 6
14 Tu O	0010 3.5 107 0650 0.3 9 1245 2.7 82 1853 0.5 15	29 W	0543 0.3 9 1142 2.7 82 1742 0.4 12	14 Th O	0039 3.2 98 0716 0.4 12 1325 2.7 82 1934 0.7 21	29 F O	0618 0.1 3 1227 3.0 91 1832 0.3 9	14 Su	0141 2.7 82 0759 0.4 12 1430 3.0 91 2054 0.7 21	29 M	0122 3.2 98 0744 -0.2 -6 1412 3.7 113 2036 0.2 6
15 W	0117 3.3 101 0757 0.4 12 1359 2.7 82 2007 0.6 18	30 Th O	0003 3.4 104 0640 0.3 9 1242 2.8 85 1846 0.4 12	15 F	0141 3.0 91 0812 0.5 15 1428 2.8 85 2042 0.7 21	30 Sa	0042 3.4 104 0714 0.0 0 1329 3.2 98 1940 0.2 6	15 M	0234 2.6 79 0843 0.4 12 1519 3.1 94 2150 0.7 21	30 Tu	0225 3.0 91 0840 -0.2 -6 1513 3.9 119 2143 0.1 3
						31 Su	0144 3.3 101 0811 -0.1 -3 1431 3.5 107 2049 0.1 3				

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Duck Pier, North Carolina, 2020

Times and Heights of High and Low Waters

July				August				September									
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height				
	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm	
1 W	0329	2.9	88		16 Th	0330	2.5	76	1 Sa	0521	3.0	91	16 Su	0444	2.9	88	
	0938	-0.2	-6			0925	0.4	12		1119	0.1	3		1039	0.3	9	
	1611	4.1	125			1605	3.5	107		1749	4.1	125		1709	4.0	122	
	2246	-0.1	-3			2243	0.5	15		●	1837	4.1	125		2342	0.2	6
2 Th	0432	2.9	88		17 F	0424	2.6	79	2 Su	0023	0.0	0	17 M	0536	3.2	98	
	1034	-0.2	-6			1016	0.3	9		0614	3.1	94		1132	0.1	3	
	1707	4.2	128			1652	3.7	113		1212	0.1	3		1758	4.2	128	
	2344	-0.2	-6			2330	0.3	9		1837	4.1	125		●	1845	4.3	131
3 F	0530	3.0	91		18 Sa	0516	2.7	82	3 M	0109	0.0	0	18 Tu	0028	0.0	0	
	1130	-0.2	-6			1106	0.2	6		0702	3.2	98		0625	3.4	104	
	1800	4.3	131			1738	3.8	116		1301	0.1	3		1224	-0.1	-3	
										●	1921	4.0	122		1845	4.3	131
4 Sa	0036	-0.3	-9		19 Su	0015	0.2	6	4 Tu	0150	0.0	0	19 W	0112	-0.2	-6	
	0625	3.0	91			0604	2.8	85		0745	3.2	98		0713	3.7	113	
	1223	-0.2	-6			1155	0.1	3		1346	0.1	3		1316	-0.2	-6	
	○	1850	4.3	131		1824	4.0	122		2001	3.9	119		1932	4.3	131	
5 Su	0126	-0.3	-9		20 M	0058	0.0	0	5 W	0228	0.0	0	20 Th	0157	-0.3	-9	
	0716	3.1	94			0651	3.0	91		0826	3.3	101		0802	3.9	119	
	1314	-0.2	-6			1244	0.0	0		1429	0.2	6		1408	-0.2	-6	
	1938	4.2	128			●	1909	4.1	125		2040	3.8	116		2020	4.3	131
6 M	0212	-0.3	-9		21 Tu	0141	-0.2	-6	6 Th	0304	0.1	3	21 F	0242	-0.4	-12	
	0805	3.1	94			0737	3.2	98		0906	3.3	101		0851	4.1	125	
	1403	-0.1	-3			1333	-0.1	-3		1511	0.4	12		1501	-0.2	-6	
	2023	4.0	122			1954	4.2	128		2118	3.6	110		2107	4.1	125	
7 Tu	0256	-0.2	-6		22 W	0225	-0.3	-9	7 F	0338	0.2	6	22 Sa	0327	-0.4	-12	
	0851	3.1	94			0824	3.3	101		0946	3.3	101		0941	4.2	128	
	1450	0.1	3			1423	-0.1	-3		1553	0.5	15		1556	-0.1	-3	
	2107	3.8	116			2040	4.1	125		2155	3.4	104		2157	3.9	119	
8 W	0338	-0.1	-3		23 Th	0309	-0.3	-9	8 Sa	0412	0.3	9	23 Su	0415	-0.3	-9	
	0937	3.1	94			0913	3.5	107		1026	3.3	101		1034	4.2	128	
	1537	0.2	6			1515	-0.1	-3		1636	0.7	21		1653	0.1	3	
	2149	3.6	110			2127	4.0	122		2234	3.2	98		2249	3.6	110	
9 Th	0418	0.0	0		24 F	0354	-0.3	-9	9 Su	0448	0.4	12	24 M	0505	-0.1	-3	
	1022	3.0	91			1003	3.6	110		1108	3.3	101		1130	4.2	128	
	1625	0.4	12			1609	-0.1	-3		1722	0.8	24		1756	0.2	6	
	2231	3.3	101			2216	3.8	116		2315	2.9	88		2346	3.3	101	
10 F	0457	0.2	6		25 Sa	0441	-0.3	-9	10 M	0526	0.5	15	25 Tu	0600	0.1	3	
	1108	3.0	91			1056	3.7	113		1153	3.3	101		1231	4.1	125	
	1713	0.6	18			1707	0.1	3		1812	0.9	27		1903	0.4	12	
	2314	3.1	94			2308	3.6	110					●				
11 Sa	0536	0.3	9		26 Su	0531	-0.2	-6	11 Tu	0001	2.8	85	26 W	0049	3.1	94	
	1155	3.0	91			1152	3.8	116		0609	0.6	18		0700	0.2	6	
	1805	0.7	21			1809	0.2	6		1241	3.3	101		1336	4.0	122	
	2359	2.9	88						●	1907	1.0	30		2014	0.5	15	
12 Su	0617	0.4	12		27 M	0003	3.3	101	12 W	0052	2.6	79	27 Th	0158	2.9	88	
	1243	3.0	91			0624	-0.1	-3		0657	0.6	18		0806	0.4	12	
	1900	0.8	24			1251	3.8	116		1333	3.3	101		1443	4.0	122	
	●					1915	0.3	9		2006	0.9	27		2123	0.5	15	
13 M	0047	2.7	82		28 Tu	0103	3.1	94	13 Th	0149	2.6	79	28 F	0311	2.9	88	
	0700	0.4	12			0720	0.0	0		0750	0.6	18		0913	0.4	12	
	1334	3.1	94			1353	3.9	119		1428	3.4	104		1548	3.9	119	
	1959	0.8	24			2025	0.3	9		2106	0.8	24		2225	0.4	12	
14 Tu	0139	2.6	79		29 W	0208	2.9	88	14 F	0249	2.6	79	29 Sa	0418	3.0	91	
	0746	0.5	15			0820	0.0	0		0846	0.6	18		1017	0.4	12	
	1425	3.2	98			1457	4.0	122		1524	3.6	110		1646	4.0	122	
	2057	0.8	24			2134	0.3	9		2203	0.7	21		2318	0.4	12	
15 W	0234	2.5	76		30 Th	0316	2.9	88	15 Sa	0348	2.7	82	30 Su	0514	3.1	94	
	0835	0.4	12			0921	0.1	3		0943	0.5	15		1113	0.4	12	
	1515	3.3	101			1559	4.0	122		1618	3.8	116		1736	4.0	122	
	2153	0.7	21			2237	0.2	6		2255	0.5	15					
					31 F	0422	2.9	88	31 M	0004	0.3	9		0602	3.3	101	
						1022	0.1	3		1203	0.3	9		1820	4.0	122	
						1656	4.1	125									
						2333	0.1	3									

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Duck Pier, North Carolina, 2020

Times and Heights of High and Low Waters

October				November				December			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>
1 Th	0044 0.3 9 0654 3.8 116 1308 0.4 12 1906 3.7 113	16 F	0010 -0.3 -9 0625 4.6 140 1244 -0.3 -9 1845 4.2 128	1 Su	0107 0.3 9 0730 3.9 119 1355 0.4 12 1946 3.2 98	16 M	0120 -0.6 -18 0745 4.8 146 1416 -0.5 -15 2007 3.5 107	1 Tu	0113 0.1 3 0739 3.8 116 1410 0.2 6 2000 2.8 85	16 W	0153 -0.5 -15 0819 4.4 134 1452 -0.5 -15 2043 3.1 94
2 F	0114 0.3 9 0727 3.8 116 1343 0.5 15 1940 3.6 110	17 Sa	0057 -0.5 -15 0715 4.8 146 1337 -0.4 -12 1935 4.1 125	2 M	0141 0.3 9 0804 3.9 119 1431 0.4 12 2022 3.1 94	17 Tu	0211 -0.4 -12 0836 4.7 143 1509 -0.3 -9 2100 3.4 104	2 W	0151 0.2 6 0816 3.8 116 1448 0.2 6 2040 2.8 85	17 Th	0245 -0.3 -9 0909 4.1 125 1542 -0.3 -9 2135 3.0 91
3 Sa	0144 0.4 12 0800 3.9 119 1419 0.5 15 2014 3.4 104	18 Su	0144 -0.5 -15 0805 4.9 149 1430 -0.4 -12 2026 3.9 119	3 Tu	0216 0.4 12 0840 3.9 119 1508 0.5 15 2101 3.0 91	18 W	0303 -0.2 -6 0928 4.4 134 1604 -0.1 -3 2155 3.2 98	3 Th	0232 0.2 6 0856 3.8 116 1529 0.2 6 2122 2.7 82	18 F	0337 -0.1 -3 0958 3.8 116 1632 -0.1 -3 2228 2.9 88
4 Su	0215 0.4 12 0834 3.9 119 1455 0.6 18 2049 3.3 101	19 M	0233 -0.3 -9 0856 4.8 146 1525 -0.2 -6 2118 3.7 113	4 W	0254 0.5 15 0918 3.8 116 1549 0.6 18 2142 2.9 88	19 Th	0358 0.0 0 1023 4.1 125 1700 0.1 3 2254 3.0 91	4 F	0315 0.3 9 0938 3.7 113 1613 0.2 6 2209 2.7 82	19 Sa	0432 0.1 3 1048 3.5 107 1722 0.0 0 2324 2.8 85
5 M	0249 0.5 15 0910 3.8 116 1532 0.7 21 2126 3.1 94	20 Tu	0324 -0.1 -3 0949 4.6 140 1622 0.0 0 2213 3.4 104	5 Th	0336 0.6 18 1000 3.7 113 1634 0.6 18 2228 2.8 85	20 F	0457 0.3 9 1120 3.8 116 1800 0.2 6 2358 2.9 88	5 Sa	0404 0.3 9 1025 3.6 110 1701 0.2 6 2300 2.8 85	20 Su	0529 0.4 12 1139 3.2 98 1813 0.2 6
6 Tu	0325 0.6 18 0947 3.8 116 1613 0.8 24 2207 3.0 91	21 W	0418 0.1 3 1045 4.3 131 1723 0.2 6 2314 3.2 98	6 F	0423 0.7 21 1047 3.6 110 1724 0.6 18 2320 2.7 82	21 Sa	0602 0.5 15 1220 3.5 107 1900 0.4 12	6 Su	0458 0.4 12 1116 3.5 107 1752 0.2 6 2357 2.9 88	21 M	0023 2.8 85 0631 0.5 15 1232 2.9 88 1902 0.3 9
7 W	0404 0.7 21 1029 3.7 113 1659 0.9 27 2252 2.9 88	22 Th	0518 0.4 12 1146 4.0 122 1828 0.4 12	7 Sa	0517 0.7 21 1140 3.5 107 1819 0.6 18	22 Su	0107 2.9 88 0712 0.7 21 1323 3.3 101 1958 0.4 12	7 M	0559 0.4 12 1212 3.4 104 1846 0.1 3	22 Tu	0122 2.8 85 0737 0.6 18 1326 2.7 82 1950 0.3 9
8 Th	0449 0.8 24 1116 3.6 110 1751 0.9 27 2344 2.8 85	23 F	0022 3.0 91 0626 0.6 18 1253 3.8 116 1936 0.5 15	8 Su	0019 2.8 85 0618 0.7 21 1239 3.5 107 1917 0.5 15	23 M	0214 2.9 88 0823 0.7 21 1424 3.1 94 2050 0.4 12	8 Tu	0058 3.1 94 0705 0.4 12 1311 3.3 101 1941 0.0 0	23 W	0220 2.9 88 0842 0.7 21 1422 2.6 79 2037 0.3 9
9 F	0542 0.9 27 1210 3.6 110 1849 0.9 27	24 Sa	0137 3.0 91 0740 0.7 21 1403 3.6 110 2040 0.6 18	9 M	0122 3.0 91 0725 0.6 18 1341 3.5 107 2015 0.3 9	24 Tu	0312 3.1 94 0925 0.7 21 1518 3.0 91 2135 0.4 12	9 W	0200 3.3 101 0814 0.2 6 1413 3.2 98 2037 -0.2 -6	24 Th	0313 3.0 91 0940 0.6 18 1515 2.5 76 2121 0.3 9
10 Sa	0043 2.8 85 0642 0.9 27 1310 3.6 110 1950 0.8 24	25 Su	0249 3.1 94 0852 0.8 24 1506 3.5 107 2135 0.6 18	10 Tu	0225 3.3 101 0832 0.5 15 1442 3.6 110 2109 0.1 3	25 W	0400 3.2 98 1018 0.6 18 1606 2.9 88 2214 0.3 9	10 Th	0301 3.6 110 0921 0.1 3 1515 3.2 98 2132 -0.3 -9	25 F	0359 3.1 94 1030 0.5 15 1605 2.5 76 2204 0.2 6
11 Su	0147 2.9 88 0747 0.8 24 1412 3.7 113 2049 0.6 18	26 M	0347 3.2 98 0954 0.7 21 1601 3.5 107 2221 0.5 15	11 W	0325 3.6 110 0937 0.2 6 1542 3.7 113 2202 -0.1 -3	26 Th	0441 3.4 104 1104 0.5 15 1648 2.9 88 2250 0.3 9	11 F	0359 4.0 122 1024 -0.2 -6 1615 3.2 98 2226 -0.5 -15	26 Sa	0442 3.3 101 1115 0.4 12 1652 2.5 76 2246 0.1 3
12 M	0251 3.1 94 0853 0.6 18 1513 3.8 116 2144 0.4 12	27 Tu	0435 3.4 104 1046 0.6 18 1646 3.4 104 2300 0.4 12	12 Th	0421 4.0 122 1038 -0.1 -3 1638 3.7 113 2252 -0.3 -9	27 F	0518 3.6 110 1145 0.4 12 1727 2.9 88 2325 0.2 6	12 Sa	0454 4.3 131 1123 -0.4 -12 1712 3.2 98 2318 -0.6 -18	27 Su	0522 3.4 104 1155 0.2 6 1736 2.6 79 2327 0.0 0
13 Tu	0350 3.5 107 0956 0.3 9 1610 4.0 122 2234 0.1 3	28 W	0515 3.5 107 1130 0.5 15 1725 3.4 104 2334 0.4 12	13 F	0513 4.4 134 1135 -0.3 -9 1732 3.8 116 2341 -0.5 -15	28 Sa	0553 3.7 113 1222 0.3 9 1805 2.9 88	13 Su	0547 4.5 137 1218 -0.5 -15 1807 3.3 101	28 M	0600 3.6 110 1233 0.1 3 1818 2.6 79
14 W	0444 3.9 119 1054 0.1 3 1704 4.1 125 2323 -0.1 -3	29 Th	0551 3.7 113 1210 0.5 15 1801 3.4 104	14 Sa	0604 4.7 143 1230 -0.4 -12 1824 3.7 113	29 Su	0000 0.1 3 0628 3.8 116 1257 0.2 6 1843 2.9 88	14 M	0011 -0.7 -21 0639 4.5 137 1311 -0.6 -18 1900 3.3 101	29 Tu	0008 0.0 0 0639 3.7 113 1311 0.0 0 1858 2.7 82
15 Th	0535 4.3 131 1150 -0.2 -6 1755 4.2 128	30 F	0005 0.3 9 0624 3.8 116 1246 0.4 12 1836 3.3 101	15 Su	0031 -0.6 -18 0655 4.8 146 1323 -0.5 -15 1915 3.7 113	30 M	0035 0.1 3 0703 3.8 116 1333 0.2 6 1921 2.9 88	15 Tu	0102 -0.6 -18 0729 4.5 137 1402 -0.5 -15 1951 3.2 98	30 W	0050 -0.1 -3 0717 3.7 113 1349 -0.1 -3 1939 2.7 82
		31 Sa	0035 0.3 9 0656 3.9 119 1320 0.4 12 1910 3.3 101						31 Th	0132 -0.1 -3 0757 3.8 116 1428 -0.1 -3 2021 2.8 85	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Cape Hatteras, North Carolina, 2020

Times and Heights of High and Low Waters

January					February					March																								
Time		Height			Time		Height			Time		Height			Time		Height																	
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 W	0511	0.4	12		16 Th	0526	-0.2	-6		1 Sa	0004	2.5	76		16 Su	0103	3.2	98		1 Su	0537	0.4	12		16 M	0037	3.3	101						
	1130	2.7	82			1138	3.1	94			0617	0.5	15			0733	0.0	0			1127	2.2	67			0715	0.1	3						
	1758	0.3	9			1759	-0.4	-12			1210	2.2	67			1322	2.3	70			1729	0.2	6			1305	2.3	70		1902	0.1	3		
2 Th	0009	2.3	70		17 F	0021	3.0	91		2 Su	0056	2.6	79		17 M	0210	3.2	98		2 M	0005	2.8	85		17 Tu	0146	3.2	98		17 Tu	0825	0.2	6	
	0607	0.5	15			0634	0.0	0			0718	0.5	15			0845	0.1	3			0634	0.5	15			1219	2.0	61			0825	0.2	6	
	1217	2.5	76			1237	2.8	85			1303	2.0	61			1432	2.2	67			1219	2.0	61			1819	0.3	9			1418	2.2	67	
3 F	0103	2.4	73		18 Sa	0126	3.1	94		3 M	0153	2.7	82		18 Tu	0316	3.2	98		3 Tu	0103	2.8	85		18 W	0254	3.1	94		18 W	0931	0.3	9	
	0708	0.6	18			0747	0.0	0			0824	0.5	15			0952	0.1	3			0739	0.5	15			1320	2.0	61			0931	0.3	9	
	1307	2.3	70			1341	2.5	76			1402	2.0	61			1539	2.2	67			1320	2.0	61			1919	0.2	6			1526	2.3	70	
4 Sa	0157	2.5	76		19 Su	0231	3.2	98		4 Tu	0251	2.8	85		19 W	0416	3.2	98		4 W	0207	2.9	88		19 Th	0355	3.1	94		19 Th	1027	0.2	6	
	0812	0.6	18			0859	0.0	0			0926	0.3	9			1050	0.0	0			0846	0.4	12			1426	2.1	64			1027	0.2	6	
	1401	2.2	67			1447	2.4	73			1503	2.0	61			1639	2.2	67			1426	2.1	64			2024	0.1	3			1624	2.4	73	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Cape Hatteras, North Carolina, 2020

Times and Heights of High and Low Waters

July					August					September																			
	Time		Height			Time		Height			Time		Height			Time		Height											
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm	h	m	ft	cm						
1 W	0322	2.8	85		16 Th	0324	2.3	70		1 Sa	0510	2.6	79		16 Su	0433	2.6	79		1 Tu	0039	0.3	9		16 W	0550	3.5	107	
	0929	-0.3	-9			0923	0.3	9			1105	-0.1	-3			1030	0.1	3			0633	3.0	91			1156	-0.2	-6	
	1610	3.8	116			1611	3.3	101			1745	3.9	119			1712	3.8	116			1232	0.1	3			1819	4.1	125	
	2239	0.0	0			2243	0.5	15								2342	0.3	9			1857	3.7	113						
2 Th	0423	2.7	82		17 F	0416	2.3	70		2 Su	0017	0.1	3		17 M	0524	2.8	85		2 W	0116	0.3	9		17 Th	0036	-0.1	-3	
	1023	-0.4	-12			1010	0.2	6			0602	2.7	82			1122	-0.1	-3			0713	3.1	94			0639	3.8	116	
	1705	4.0	122			1656	3.5	107			1156	-0.1	-3			1759	4.0	122			1314	0.2	6			1249	-0.3	-9	
	2337	-0.1	-3			2330	0.4	12			1833	3.9	119								1934	3.7	113			1907	4.2	128	
3 F	0520	2.7	82		18 Sa	0505	2.4	73		3 M	0103	0.0	0		18 Tu	0026	0.1	3		3 Th	0151	0.3	9		18 F	0120	-0.2	-6	
	1116	-0.4	-12			1057	0.0	0			0651	2.8	85			0613	3.0	91			0751	3.2	98			0729	4.0	122	
	1757	4.1	125			1741	3.7	113			1244	-0.1	-3			1845	4.1	125			1353	0.2	6			1342	-0.4	-12	
											1918	3.9	119								2010	3.5	107			1954	4.0	122	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Wilmington, North Carolina, 2020

Times and Heights of High and Low Waters

January				February				March			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
	<small>h m ft cm</small>		<small>h m ft cm</small>		<small>h m ft cm</small>		<small>h m ft cm</small>		<small>h m ft cm</small>		<small>h m ft cm</small>
1 W	0145 3.6 110	16 Th	0150 4.4 134	1 Sa	0221 3.9 119	16 Su	0329 4.7 143	1 Su	0057 4.3 131	16 M	0306 4.8 146
	0758 0.5 15		0827 -0.1 -3		0858 0.7 21		1014 0.2 6		0818 0.7 21		0951 0.4 12
	1409 4.0 122		1411 4.5 137		1451 3.8 116		1547 4.2 128		1347 3.9 119		1526 4.2 128
	2036 0.4 12		2100 -0.1 -3		2057 0.4 12		2229 0.1 3		2003 0.5 15		2202 0.4 12
2 Th	0235 3.6 110	17 F	0251 4.5 137	2 Su	0307 3.9 119	17 M	0428 4.7 143	2 M	0145 4.3 131	17 Tu	0403 4.7 143
	0849 0.6 18		0930 0.1 3		1001 0.7 21		1115 0.3 9		0919 0.8 24		1050 0.4 12
	1457 3.9 119		1509 4.3 131		1541 3.7 113		1644 4.1 125		1441 3.9 119		1624 4.2 128
	2120 0.4 12		2157 -0.1 -3		2152 0.4 12		2327 0.1 3		2058 0.5 15		2302 0.5 15
3 F	0325 3.7 113	18 Sa	0351 4.5 137	3 M	0400 4.0 122	18 Tu	0526 4.6 140	3 Tu	0243 4.3 131	18 W	0501 4.6 140
	0948 0.6 18		1034 0.1 3		1106 0.7 21		1213 0.3 9		1027 0.8 24		1147 0.4 12
	1546 3.8 116		1606 4.2 128		1636 3.7 113		1742 4.1 125		1544 3.9 119		1721 4.2 128
	2207 0.3 9		2255 -0.2 -6		2255 0.4 12		1742 4.1 125		2208 0.5 15		
4 Sa	0415 3.8 116	19 Su	0450 4.6 140	4 Tu	0500 4.1 125	19 W	0024 0.1 3	4 W	0354 4.4 134	19 Th	0000 0.4 12
	1048 0.6 18		1136 0.1 3		1207 0.6 18		1307 0.2 6		1133 0.8 24		0557 4.6 140
	1636 3.7 113		1704 4.1 125		1737 3.8 116		1838 4.2 128		1650 3.9 119		1240 4.2 128
	2257 0.3 9		2351 -0.2 -6		2358 0.3 9		1838 4.2 128		2324 0.5 15		1816 4.3 131
5 Su	0506 3.9 119	20 M	0548 4.7 143	5 W	0600 4.3 131	20 Th	0118 0.1 3	5 Th	0513 4.5 137	20 F	0054 0.4 12
	1147 0.5 15		1234 0.0 0		1304 0.5 15		1359 0.2 6		1233 0.6 18		0650 4.6 140
	1727 3.7 113		1802 4.1 125		1829 3.9 119		1931 4.3 131		1755 4.1 125		1330 0.3 9
	2348 0.2 6										1909 4.4 134
6 M	0557 4.1 125	21 Tu	0046 -0.2 -6	6 Th	0059 0.1 3	21 F	0209 0.0 0	6 F	0032 0.3 9	21 Sa	0145 0.3 9
	1242 0.4 12		0645 4.7 143		0658 4.5 137		0807 4.7 143		0623 4.7 143		0740 4.7 143
	1818 3.8 116		1330 0.0 0		1359 0.3 9		1447 0.1 3		1330 0.5 15		1416 0.3 9
			1857 4.1 125		1923 4.1 125		2020 4.3 131		1855 4.4 134		1958 4.5 137
7 Tu	0039 0.1 3	22 W	0140 -0.2 -6	7 F	0156 0.0 0	22 Sa	0258 0.0 0	7 Sa	0135 0.1 3	22 Su	0233 0.2 6
	0647 4.3 131		0738 4.8 146		0752 4.8 146		0852 4.7 143		0725 4.9 149		0825 4.7 143
	1336 0.3 9		1423 0.0 0		1451 0.2 6		1532 0.1 3		1424 0.3 9		1500 0.3 9
	1907 3.9 119		1949 4.2 128		2013 4.3 131		2105 4.4 134		1951 4.7 143		2043 4.6 140
8 W	0130 0.0 0	23 Th	0231 -0.2 -6	8 Sa	0252 -0.2 -6	23 Su	0343 0.1 3	8 Su	0233 -0.1 -3	23 M	0319 0.2 6
	0734 4.5 137		0828 4.8 146		0842 5.0 152		0935 4.7 143		0819 5.1 155		0907 4.7 143
	1427 0.2 6		1512 0.0 0		1541 0.0 0		1613 0.2 6		1515 0.1 3		1540 0.3 9
	1953 4.0 122		2038 4.2 128		2102 4.5 137		2148 4.4 134		2043 4.9 149		2124 4.7 143
9 Th	0221 -0.1 -3	24 F	0319 -0.2 -6	9 Su	0345 -0.4 -12	24 M	0425 0.1 3	9 M	0329 -0.3 -9	24 Tu	0401 0.3 9
	0818 4.7 143		0914 4.8 146		0931 5.1 155		1015 4.6 140		0910 5.2 158		0947 4.6 140
	1517 0.1 3		1559 0.0 0		1630 -0.1 -3		1652 0.3 9		1604 -0.1 -3		1617 0.3 9
	2037 4.1 125		2125 4.2 128		2151 4.7 143		2228 4.4 134		2135 5.2 158		2203 4.7 143
10 F	0311 -0.2 -6	25 Sa	0405 -0.1 -3	10 M	0438 -0.4 -12	25 Tu	0505 0.2 6	10 Tu	0423 -0.4 -12	25 W	0442 0.3 9
	0902 4.8 146		0958 4.7 143		1019 5.1 155		1053 4.5 137		1000 5.2 158		1024 4.5 137
	1606 0.0 0		1642 0.1 3		1717 -0.2 -6		1726 0.3 9		1652 -0.2 -6		1651 0.4 12
	2121 4.2 128		2210 4.1 125		2242 4.8 146		2306 4.3 131		2226 5.3 162		2236 4.7 143
11 Sa	0401 -0.3 -9	26 Su	0447 0.0 0	11 Tu	0529 -0.4 -12	26 W	0542 0.3 9	11 W	0515 -0.4 -12	26 Th	0520 0.4 12
	0945 4.9 149		1040 4.6 140		1109 5.0 152		1130 4.4 134		1050 5.1 155		1058 4.4 134
	1653 0.0 0		1723 0.1 3		1804 -0.2 -6		1757 0.4 12		1738 -0.2 -6		1721 0.5 15
	2205 4.2 128		2253 4.1 125		2336 4.8 146		2339 4.3 131		2319 5.3 162		2301 4.6 140
12 Su	0451 -0.4 -12	27 M	0528 0.1 3	12 W	0621 -0.4 -12	27 Th	0618 0.4 12	12 Th	0607 -0.3 -9	27 F	0557 0.5 15
	1030 4.9 149		1122 4.5 137		1201 4.9 149		1204 4.2 128		1142 4.9 149		1128 4.2 128
	1740 -0.1 -3		1801 0.2 6		1851 -0.2 -6		1824 0.5 15		1826 -0.1 -3		1747 0.5 15
	2254 4.3 131		2336 4.0 122								2311 4.6 140
13 M	0541 -0.4 -12	28 Tu	0606 0.2 6	13 Th	0034 4.8 146	28 F	0003 4.3 131	13 F	0014 5.3 162	28 Sa	0633 0.6 18
	1120 4.9 149		1202 4.3 131		0715 -0.2 -6		0653 0.5 15		0700 -0.1 -3		1151 4.1 125
	1827 -0.1 -3		1836 0.3 9		1256 4.7 143		1235 4.1 125		1236 4.7 143		1815 0.5 15
	2349 4.3 131				1940 -0.1 -3		1850 0.5 15		1914 0.0 0		2335 4.7 143
14 Tu	0633 -0.3 -9	29 W	0018 3.9 119	14 F	0132 4.8 146	29 Sa	0021 4.3 131	14 Sa	0111 5.2 158	29 Su	0711 0.6 18
	1215 4.8 146		0643 0.3 9		0812 0.0 0		0732 0.6 18		0755 0.1 3		1219 4.0 122
	1915 -0.1 -3		1243 4.2 128		1353 4.5 137		1306 4.0 122		1333 4.5 137		1848 0.5 15
			1908 0.4 12		2033 0.0 0		1922 0.5 15		2006 0.2 6		
15 W	0049 4.4 134	30 Th	0059 3.9 119	15 Sa	0231 4.8 146	15 Su	0208 5.0 152	15 Su	0208 5.0 152	30 M	0016 4.7 143
	0728 -0.2 -6		0721 0.5 15		0912 0.1 3		0852 0.3 9		0852 0.3 9		0755 0.7 21
	1312 4.7 143		1324 4.0 122		1449 4.3 131		1429 4.3 131		1429 4.3 131		1303 4.0 122
	2006 -0.1 -3		1939 0.4 12		2130 0.0 0		2102 0.3 9		2102 0.3 9		1931 0.6 18
31 F	0140 3.9 119	31 F	0804 0.6 18	31 F		31 Tu		31 Tu	0106 4.7 143	31 Tu	0106 4.7 143
	0804 0.6 18								0851 0.8 24		
	1406 3.9 119								1400 4.0 122		
	2013 0.4 12								2027 0.6 18		

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Wilmington, North Carolina, 2020

Times and Heights of High and Low Waters

July				August				September						
Day	Time		Height		Day	Time		Height		Day	Time		Height	
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm
1 W	0023	0.0	0		1 Sa	0158	0.0	0		1 Tu	0312	0.1	3	
	0543	4.1	125			0721	4.1	125			0844	4.4	134	
	1234	-0.4	-12			1403	-0.2	-6			1522	0.1	3	
	1832	5.0	152			2002	5.0	152			2112	4.9	149	
2 Th	0122	-0.1	-3		2 Su	0250	0.0	0		2 W	0355	0.1	3	
	0642	4.1	125			0814	4.1	125			0929	4.4	134	
	1329	-0.4	-12			1455	-0.2	-6			1607	0.2	6	
	1927	5.1	155			2051	5.0	152		○	2153	4.8	146	
3 F	0218	-0.1	-3		3 M	0339	-0.1	-3		3 Th	0436	0.2	6	
	0738	4.1	125			0904	4.1	125			1012	4.4	134	
	1422	-0.4	-12			1544	-0.1	-3			1649	0.3	9	
	2020	5.1	155		○	2137	4.9	149		●	2233	4.7	143	
4 Sa	0312	-0.2	-6		4 Tu	0425	0.0	0		4 F	0513	0.3	9	
	0831	4.1	125			0951	4.1	125			1053	4.4	134	
	1514	-0.3	-9			1630	0.0	0			1729	0.4	12	
○	2110	5.1	155			2220	4.8	146			2311	4.5	137	
5 Su	0403	-0.2	-6		5 W	0508	0.0	0		5 Sa	0546	0.4	12	
	0923	4.0	122			1038	4.1	125			1132	4.3	131	
	1604	-0.2	-6			1713	0.2	6			1807	0.6	18	
	2158	5.0	152		●	2303	4.7	143			2348	4.3	131	
6 M	0451	-0.2	-6		6 Th	0548	0.1	3		6 Su	0616	0.4	12	
	1013	4.0	122			1124	4.0	122			1208	4.3	131	
	1652	-0.1	-3			1755	0.3	9			1845	0.7	21	
	2245	4.9	149			2345	4.5	137						
7 Tu	0536	-0.1	-3		7 F	0625	0.2	6		7 M	0025	4.1	125	
	1104	3.9	119			1210	4.0	122			0643	0.5	15	
	1737	0.1	3			1835	0.5	15			1240	4.2	128	
	2332	4.7	143							1925	0.8	24		
8 W	0620	0.0	0		8 Sa	0027	4.3	131		8 Tu	0102	4.0	122	
	1154	3.8	116			0700	0.3	9			0711	0.5	15	
	1822	0.2	6			1255	4.0	122			1309	4.2	128	
						1916	0.6	18			2010	0.9	27	
9 Th	0019	4.5	137		9 Su	0110	4.1	125		9 W	0143	3.9	119	
	0702	0.1	3			0732	0.3	9			0749	0.5	15	
	1245	3.8	116			1341	3.9	119			1350	4.2	128	
	1906	0.4	12			2000	0.7	21			2107	1.0	30	
10 F	0105	4.3	131		10 M	0154	3.9	119		10 Th	0233	3.8	116	
	0742	0.1	3			0805	0.3	9			0839	0.5	15	
	1336	3.8	116			1426	4.0	122		○	1446	4.3	131	
	1951	0.5	15			2051	0.8	24		●	2210	1.0	30	
11 Sa	0152	4.1	125		11 Tu	0240	3.8	116		11 F	0331	3.8	116	
	0823	0.2	6			0844	0.3	9			0942	0.5	15	
	1425	3.8	116		●	1512	4.0	122			1553	4.3	131	
	2041	0.6	18			2149	0.8	24			2312	0.9	27	
12 Su	0238	4.0	122		12 W	0329	3.7	113		12 Sa	0432	3.8	116	
	0905	0.2	6			0933	0.3	9			1054	0.5	15	
	1514	3.8	116			1601	4.1	125			1700	4.5	137	
●	2136	0.7	21			2250	0.8	24						
13 M	0326	3.8	116		13 Th	0420	3.7	113		13 Su	0011	0.8	24	
	0948	0.2	6			1030	0.3	9			0532	4.0	122	
	1603	3.9	119			1653	4.2	128			1202	0.4	12	
	2233	0.7	21			2348	0.7	21			1803	4.7	143	
14 Tu	0415	3.7	113		14 F	0514	3.7	113		14 M	0106	0.6	18	
	1035	0.2	6			1131	0.3	9			0630	4.2	128	
	1652	4.0	122			1747	4.3	131			1304	0.2	6	
	2330	0.6	18								1859	4.9	149	
15 W	0505	3.7	113		15 Sa	0044	0.6	18		15 Tu	0158	0.4	12	
	1124	0.1	3			0609	3.8	116			0725	4.5	137	
	1742	4.2	128			1230	0.2	6			1403	0.0	0	
						1841	4.5	137			1951	5.1	155	
					31 F	0103	0.1	3		31 M	0225	0.1	3	
						0625	4.1	125			0756	4.3	131	
						1309	-0.3	-9			1434	0.0	0	
						1910	5.0	152			2029	5.0	152	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Wilmington, North Carolina, 2020

Times and Heights of High and Low Waters

October				November				December			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>
1 Th O	0323 0.2 6 0905 4.7 143 1542 0.3 9 2125 4.8 146	16 F 0308 -0.1 -3 0846 5.3 162 1537 -0.2 -6 2104 5.1 155		1 Su	0401 0.2 6 0954 4.7 143 1641 0.4 12 2210 4.2 128	16 M	0422 -0.4 -12 1010 5.5 168 1706 -0.2 -6 2225 4.6 140	1 Tu	0406 0.1 3 0957 4.6 140 1658 0.3 9 2216 3.9 119	16 W	0452 -0.4 -12 1045 5.1 155 1737 -0.2 -6 2259 4.2 128
2 F	0401 0.2 6 0945 4.7 143 1624 0.4 12 2203 4.6 140	17 Sa	0357 -0.2 -6 0937 5.5 168 1631 -0.2 -6 2153 5.0 152	2 M	0434 0.3 9 1022 4.6 140 1720 0.5 15 2241 4.1 125	17 Tu	0512 -0.3 -9 1104 5.3 162 1757 -0.1 -3 2319 4.4 134	2 W	0442 0.1 3 1017 4.5 137 1739 0.4 12 2241 3.8 116	17 Th	0541 -0.3 -9 1137 4.9 149 1825 -0.1 -3 2354 4.1 125
3 Sa	0436 0.3 9 1022 4.6 140 1704 0.5 15 2239 4.4 134	18 Su	0445 -0.3 -9 1028 5.5 168 1723 -0.1 -3 2244 4.8 146	3 Tu	0505 0.4 12 1036 4.6 140 1758 0.6 18 2303 4.0 122	18 W	0601 -0.2 -6 1159 5.1 155 1849 0.1 3	3 Th	0518 0.1 3 1038 4.5 137 1819 0.4 12 2307 3.8 116	18 F	0629 -0.1 -3 1230 4.7 143 1913 0.1 3
4 Su	0508 0.4 12 1054 4.6 140 1743 0.6 18 2312 4.3 131	19 M	0534 -0.2 -6 1123 5.4 165 1816 0.0 0 2340 4.6 140	4 W	0535 0.4 12 1054 4.6 140 1837 0.7 21 2326 3.9 119	19 Th	0017 4.2 128 0652 0.0 0 1257 4.9 149 1941 0.2 6	4 F	0557 0.1 3 1115 4.6 140 1901 0.5 15 2348 3.8 116	19 Sa	0049 3.9 119 0718 0.1 3 1322 4.5 137 2001 0.2 6
5 M	0536 0.5 15 1116 4.5 137 1820 0.7 21 2339 4.1 125	20 Tu	0623 -0.1 -3 1221 5.3 162 1910 0.2 6	5 Th	0609 0.4 12 1131 4.6 140 1919 0.8 24	20 F	0116 4.1 125 0745 0.2 6 1353 4.7 143 2034 0.3 9	5 Sa	0642 0.2 6 1205 4.5 137 1947 0.5 15	20 Su	0145 3.9 119 0810 0.3 9 1413 4.3 131 2050 0.2 6
6 Tu	0602 0.5 15 1129 4.5 137 1858 0.8 24	21 W	0039 4.4 134 0715 0.1 3 1321 5.1 155 2005 0.3 9	6 F	0006 3.8 116 0651 0.4 12 1220 4.5 137 2008 0.8 24	21 Sa	0214 4.0 122 0842 0.4 12 1448 4.5 137 2128 0.3 9	6 Su	0044 3.8 116 0734 0.2 6 1304 4.5 137 2040 0.4 12	21 M	0239 3.8 116 0905 0.4 12 1503 4.1 125 2139 0.2 6
7 W	0003 4.0 122 0633 0.5 15 1202 4.5 137 1940 0.9 27	22 Th	0139 4.2 128 0811 0.3 9 1420 4.9 149 2102 0.4 12	7 Sa	0101 3.8 116 0743 0.4 12 1319 4.5 137 2106 0.8 24	22 Su	0311 3.9 119 0940 0.4 12 1540 4.4 134 2222 0.3 9	7 M	0154 3.9 119 0839 0.3 9 1413 4.4 134 2137 0.3 9	22 Tu	0331 3.9 119 1001 0.5 15 1553 4.0 122 2228 0.2 6
8 Th	0041 3.9 119 0713 0.5 15 1249 4.5 137 2033 1.0 30	23 F	0239 4.1 125 0910 0.4 12 1518 4.7 143 2200 0.5 15	8 Su	0210 3.9 119 0849 0.5 15 1430 4.5 137 2207 0.6 18	23 M	0406 4.0 122 1039 0.4 12 1632 4.3 131 2312 0.2 6	8 Tu	0306 4.1 125 0952 0.3 9 1523 4.4 134 2236 0.1 3	23 W	0424 3.9 119 1058 0.5 15 1643 3.9 119 2316 0.2 6
9 F	0134 3.8 116 0803 0.6 18 1348 4.4 134 2135 1.0 30	24 Sa	0337 4.1 125 1011 0.4 12 1613 4.6 140 2256 0.4 12	9 M	0326 4.0 122 1006 0.4 12 1546 4.5 137 2307 0.5 15	24 Tu	0500 4.1 125 1134 0.4 12 1722 4.3 131	9 W	0413 4.3 131 1102 0.2 6 1630 4.4 134 2334 -0.1 -3	24 Th	0516 4.0 122 1152 0.4 12 1733 3.9 119
10 Sa	0242 3.8 116 0909 0.6 18 1500 4.5 137 2239 0.9 27	25 Su	0434 4.2 128 1109 0.4 12 1706 4.6 140 2349 0.3 9	10 Tu	0435 4.2 128 1119 0.3 9 1656 4.6 140	25 W	0000 0.1 3 0552 4.2 128 1227 0.3 9 1811 4.2 128	10 Th	0516 4.5 137 1208 0.1 3 1733 4.4 134	25 F	0003 0.1 3 0607 4.1 125 1244 0.3 9 1824 3.9 119
11 Su	0354 3.9 119 1026 0.5 15 1618 4.6 140 2338 0.7 21	26 M	0529 4.3 131 1205 0.4 12 1758 4.6 140	11 W	0003 0.2 6 0538 4.5 137 1225 0.1 3 1759 4.7 143	26 Th	0046 0.0 0 0642 4.4 134 1317 0.3 9 1859 4.2 128	11 F	0029 -0.2 -6 0617 4.8 146 1309 -0.1 -3 1833 4.4 134	26 Sa	0048 0.0 0 0656 4.3 131 1334 0.3 9 1912 3.9 119
12 M	0501 4.1 125 1139 0.4 12 1727 4.7 143	27 Tu	0038 0.2 6 0622 4.4 134 1256 0.3 9 1846 4.6 140	12 Th	0057 0.0 0 0638 4.9 149 1326 0.0 0 1856 4.8 146	27 F	0129 0.0 0 0728 4.5 137 1404 0.2 6 1944 4.2 128	12 Sa	0124 -0.4 -12 0715 5.1 155 1407 -0.2 -6 1929 4.5 137	27 Su	0133 0.0 0 0742 4.4 134 1422 0.2 6 1958 3.9 119
13 Tu	0034 0.5 15 0603 4.4 134 1243 0.2 6 1828 4.9 149	28 W	0123 0.1 3 0711 4.5 137 1346 0.2 6 1932 4.6 140	13 F	0149 -0.2 -6 0734 5.2 158 1424 -0.2 -6 1950 4.8 146	28 Sa	0211 0.0 0 0812 4.6 140 1450 0.2 6 2027 4.2 128	13 Su	0218 -0.5 -15 0810 5.2 158 1503 -0.3 -9 2023 4.5 137	28 M	0217 0.0 0 0825 4.4 134 1508 0.2 6 2040 3.9 119
14 W	0127 0.2 6 0700 4.8 146 1344 0.0 0 1923 5.0 152	29 Th	0207 0.1 3 0757 4.7 143 1432 0.2 6 2015 4.6 140	14 Sa	0241 -0.4 -12 0827 5.4 165 1520 -0.2 -6 2042 4.8 146	29 Su	0251 0.0 0 0852 4.6 140 1535 0.2 6 2107 4.1 125	14 M	0310 -0.5 -15 0902 5.3 162 1556 -0.3 -9 2115 4.4 134	29 Tu	0301 0.0 0 0903 4.5 137 1553 0.2 6 2119 3.9 119
15 Th	0218 0.0 0 0754 5.1 155 1441 -0.1 -3 2014 5.1 155	30 F	0247 0.1 3 0839 4.7 143 1517 0.3 9 2056 4.5 137	15 Su	0332 -0.4 -12 0918 5.5 168 1614 -0.3 -9 2133 4.7 143	30 M	0329 0.1 3 0928 4.6 140 1617 0.3 9 2144 4.0 122	15 Tu	0402 -0.5 -15 0954 5.2 158 1647 -0.3 -9 2206 4.3 131	30 W	0343 -0.1 -3 0938 4.5 137 1636 0.2 6 2154 3.9 119
		31 Sa	0326 0.2 6 0919 4.7 143 1600 0.3 9 2135 4.4 134						31 Th	0425 -0.1 -3 1007 4.6 140 1718 0.2 6 2226 3.9 119	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Myrtle Beach, South Carolina, 2020

Times and Heights of High and Low Waters

January				February				March						
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height	
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm
1 W	0521	0.7	21		16 Th	0537	-0.3	-9		1 Sa	0010	4.1	125	
	1153	4.5	137			0619	0.8	24			0115	5.3	162	
	1753	0.5	15			1240	3.9	119			0733	0.1	3	
2 Th	0016	4.0	122		17 F	0642	-0.1	-3		2 Su	0100	4.2	128	
	0612	0.9	27			0719	0.9	27			0216	5.2	158	
	1241	4.3	131			1329	3.8	116			0846	0.3	9	
3 F	0105	4.0	122		18 Sa	0137	5.2	158		3 M	0151	4.4	134	
	0711	1.0	30			0752	0.1	3			0825	0.9	27	
	1328	4.2	128			1350	4.6	140			1421	3.8	116	
4 Sa	0152	4.2	128		19 Su	0237	5.3	162		4 Tu	0245	4.6	140	
	0815	1.0	30			0904	0.1	3			0929	0.8	24	
	1416	4.1	125			1450	4.4	134			1516	3.9	119	
5 Su	0241	4.4	134		20 M	0337	5.4	165		5 W	0341	4.9	149	
	0916	0.9	27			1008	0.0	0			1026	0.5	15	
	1505	4.0	122			1551	4.3	131			1611	4.1	125	
6 M	0330	4.7	143		21 Tu	0435	5.5	168		6 Th	0437	5.2	158	
	1010	0.7	21			1104	-0.1	-3			1117	0.1	3	
	1556	4.1	125			1650	4.3	131			1706	4.4	134	
7 Tu	0419	5.0	152		22 W	0529	5.6	171		7 F	0530	5.6	171	
	1100	0.4	12			1155	-0.2	-6			1206	-0.2	-6	
	1645	4.2	128			1744	4.4	134			1757	4.7	143	
8 W	0508	5.3	162		23 Th	0619	5.6	171		8 Sa	0007	-0.9	-27	
	1146	0.2	6			1241	-0.2	-6			0620	6.0	183	
	1734	4.4	134			1831	4.5	137			1254	-0.6	-18	
9 Th	0555	5.6	171		24 F	0044	-0.5	-15		9 Su	0058	-1.2	-37	
	1232	-0.1	-3			0703	5.6	171			0708	6.2	189	
	1820	4.6	140			1323	-0.2	-6			1341	-0.8	-24	
10 F	0027	-0.7	-21		25 Sa	0127	-0.4	-12		10 M	0149	-1.3	-40	
	0641	5.9	180			0744	5.5	168			0756	6.2	189	
	1317	-0.3	-9			1402	-0.2	-6			1427	-1.0	-30	
11 Sa	0115	-0.9	-27		26 Su	0208	-0.3	-9		11 Tu	0240	-1.3	-40	
	0726	6.1	186			0823	5.4	165			0845	6.1	186	
	1403	-0.5	-15			1440	-0.2	-6			1514	-1.0	-30	
12 Su	0204	-1.0	-30		27 M	0248	-0.2	-6		12 W	0332	-1.2	-37	
	0813	6.1	186			0902	5.2	158			0937	5.8	177	
	1450	-0.6	-18			1517	-0.1	-3			1601	-0.9	-27	
13 M	0253	-0.9	-27		28 Tu	0326	0.0	0		13 Th	0425	-0.9	-27	
	0902	6.0	183			0942	4.9	149			1033	5.4	165	
	1537	-0.6	-18			1553	0.0	0			1651	-0.7	-21	
14 Tu	0345	-0.8	-24		29 W	0405	0.2	6		14 F	0522	-0.5	-15	
	0955	5.8	177			1024	4.6	140			1131	5.0	152	
	1625	-0.6	-18			1629	0.1	3			1743	-0.5	-15	
15 W	0439	-0.6	-18		30 Th	0445	0.4	12		15 Sa	0014	5.4	165	
	1052	5.5	168			1107	4.4	134			0624	-0.1	-3	
	1715	-0.5	-15			1707	0.3	9			1231	4.6	140	
16 Th	0439	-0.6	-18		31 F	0529	0.7	21		1 Su	0624	-0.1	-3	
	1052	5.5	168			1153	4.1	125			1212	4.6	140	
	1715	-0.5	-15			1748	0.4	12			1816	0.1	3	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Myrtle Beach, South Carolina, 2020

Times and Heights of High and Low Waters

July				August				September			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft	h m	ft	h m	ft	h m	ft	h m	ft	h m	ft
1 W	0328 4.9 149 0951 -0.3 -9 1614 6.2 189 2244 -0.1 -3	16 Th	0334 4.2 128 0939 0.4 12 1559 5.2 158 2243 0.9 27	1 Sa	0512 4.7 143 1128 -0.1 -3 1750 6.2 189	16 Su	0442 4.6 140 1049 0.2 6 1705 5.9 180 2345 0.5 15	1 Tu	0039 0.4 12 0636 5.2 158 1249 0.3 9 1901 6.0 183	16 W	0001 0.1 3 0600 5.9 180 1212 -0.3 -9 1818 6.7 204
2 Th	0428 4.8 146 1047 -0.4 -12 1710 6.3 192 2340 -0.2 -6	17 F	0425 4.2 128 1028 0.3 9 1647 5.4 165 2330 0.7 21	2 Su	0017 0.1 3 0606 4.8 146 1218 -0.1 -3 1839 6.2 189	17 M	0534 4.9 149 1141 -0.1 -3 1754 6.2 189	2 W	0117 0.4 12 0717 5.3 162 1330 0.4 12 1939 5.9 180	17 Th	0047 -0.2 -6 0650 6.3 192 1304 -0.5 -15 1907 6.8 207
3 F	0526 4.8 146 1140 -0.4 -12 1804 6.4 195	18 Sa	0514 4.4 134 1116 0.1 3 1734 5.7 174	3 M	0103 0.1 3 0655 4.9 149 1306 0.0 0 1923 6.1 186	18 Tu	0031 0.2 6 0623 5.3 162 1231 -0.3 -9 1842 6.5 198	3 Th	0153 0.3 9 0754 5.3 162 1410 0.5 15 2016 5.7 174	18 F	0134 -0.4 -12 0739 6.6 201 1357 -0.5 -15 1955 6.6 201
4 Sa	0033 -0.3 -9 0621 4.9 149 1232 -0.4 -12 1854 6.4 195	19 Su	0016 0.4 12 0602 4.5 137 1204 -0.1 -3 1820 6.0 183	4 Tu	0146 0.1 3 0740 4.9 149 1352 0.1 3 2006 6.0 183	19 W	0117 -0.1 -3 0712 5.6 171 1322 -0.4 -12 1929 6.6 201	4 F	0229 0.4 12 0831 5.3 162 1449 0.7 21 2053 5.5 168	19 Sa	0221 -0.5 -15 0830 6.8 207 1449 -0.4 -12 2046 6.4 195
5 Su	0123 -0.3 -9 0712 4.9 149 1322 -0.3 -9 1942 6.3 192	20 M	0100 0.2 6 0648 4.7 143 1252 -0.2 -6 1905 6.1 186	5 W	0227 0.1 3 0823 4.9 149 1435 0.3 9 2047 5.7 174	20 Th	0203 -0.3 -9 0800 5.8 177 1414 -0.5 -15 2017 6.5 198	5 Sa	0304 0.5 15 0908 5.2 158 1527 0.9 27 2132 5.2 158	20 Su	0308 -0.4 -12 0923 6.7 204 1543 -0.2 -6 2140 6.0 183
6 M	0210 -0.2 -6 0800 4.8 146 1411 -0.2 -6 2029 6.1 186	21 Tu	0145 0.0 0 0734 4.9 149 1341 -0.3 -9 1950 6.2 189	6 Th	0305 0.2 6 0905 4.8 146 1516 0.5 15 2128 5.4 165	21 F	0249 -0.4 -12 0851 6.0 183 1506 -0.4 -12 2107 6.3 192	6 Su	0339 0.6 18 0947 5.1 155 1606 1.1 34 2213 4.9 149	21 M	0358 -0.2 -6 1021 6.6 201 1639 0.1 3 2239 5.6 171
7 Tu	0255 -0.1 -3 0849 4.7 143 1458 0.1 3 2115 5.8 177	22 W	0230 -0.1 -3 0821 5.0 152 1430 -0.3 -9 2036 6.2 189	7 F	0342 0.3 9 0949 4.8 146 1557 0.7 21 2211 5.2 158	22 Sa	0335 -0.4 -12 0946 6.0 183 1559 -0.2 -6 2200 6.0 183	7 M	0415 0.7 21 1029 5.1 155 1647 1.3 40 2257 4.6 140	22 Tu	0450 0.1 3 1123 6.4 195 1738 0.5 15 2342 5.2 158
8 W	0337 0.0 0 0938 4.6 140 1543 0.3 9 2203 5.4 165	23 Th	0315 -0.2 -6 0912 5.1 155 1521 -0.3 -9 2126 6.1 186	8 Sa	0419 0.4 12 1034 4.7 143 1639 0.9 27 2255 4.9 149	23 Su	0423 -0.3 -9 1044 6.1 186 1655 0.0 0 2258 5.6 171	8 Tu	0454 0.9 27 1115 5.0 152 1732 1.5 46 2345 4.4 134	23 W	0547 0.4 12 1226 6.2 189 1843 0.8 24
9 Th	0418 0.2 6 1029 4.5 137 1628 0.6 18 2250 5.1 155	24 F	0400 -0.3 -9 1008 5.3 162 1613 -0.1 -3 2220 5.8 177	9 Su	0456 0.5 15 1119 4.7 143 1723 1.2 37 2341 4.6 140	24 M	0513 -0.1 -3 1145 6.1 186 1754 0.3 9 2359 5.3 162	9 W	0536 1.0 30 1205 5.1 155 1823 1.6 49	24 Th	0046 5.0 152 0652 0.7 21 1328 6.1 186 1954 1.0 30
10 F	0459 0.3 9 1120 4.4 134 1714 0.9 27 2338 4.9 149	25 Sa	0448 -0.3 -9 1107 5.4 165 1709 0.0 0 2317 5.6 171	10 M	0536 0.7 21 1205 4.7 143 1812 1.3 40	25 Tu	0609 0.1 3 1245 6.1 186 1900 0.6 18	10 Th	0035 4.3 131 0626 1.1 34 1257 5.1 155 1924 1.7 52	25 F	0149 4.9 149 0804 0.8 24 1428 5.9 180 2102 1.0 30
11 Sa	0540 0.4 12 1209 4.4 134 1804 1.1 34	26 Su	0537 -0.2 -6 1206 5.6 171 1809 0.2 6	11 Tu	0028 4.4 134 0619 0.8 24 1252 4.8 146 1908 1.4 43	26 W	0100 5.0 152 0711 0.3 9 1345 6.0 183 2011 0.7 21	11 F	0128 4.3 131 0723 1.1 34 1350 5.3 162 2030 1.6 49	26 Sa	0250 4.8 146 0913 0.9 27 1526 5.9 180 2200 0.9 27
12 Su	0025 4.6 140 0623 0.5 15 1255 4.5 137 1859 1.2 37	27 M	0015 5.3 162 0632 -0.1 -3 1304 5.7 174 1915 0.4 12	12 W	0115 4.3 131 0709 0.8 24 1339 4.9 149 2010 1.5 46	27 Th	0200 4.8 146 0819 0.4 12 1445 6.0 183 2119 0.7 21	12 Sa	0222 4.4 134 0826 0.9 27 1445 5.5 168 2131 1.3 40	27 Su	0349 4.9 149 1012 0.8 24 1621 5.8 177 2248 0.8 24
13 M	0111 4.4 134 0709 0.6 18 1340 4.6 140 1959 1.3 40	28 Tu	0114 5.0 152 0731 0.0 0 1402 5.9 180 2025 0.4 12	13 Th	0204 4.2 128 0804 0.8 24 1428 5.1 155 2111 1.4 43	28 F	0302 4.7 143 0925 0.5 15 1544 6.0 183 2219 0.7 21	13 Su	0318 4.7 143 0928 0.7 21 1541 5.8 177 2224 0.9 27	28 M	0444 5.1 155 1103 0.7 21 1710 5.8 177 2330 0.7 21
14 Tu	0157 4.3 131 0758 0.6 18 1425 4.8 146 2058 1.2 37	29 W	0213 4.8 146 0834 0.0 0 1500 6.0 183 2132 0.4 12	14 F	0255 4.2 128 0901 0.7 21 1520 5.3 162 2207 1.1 34	29 Sa	0402 4.8 146 1024 0.4 12 1641 6.0 183 2311 0.6 18	14 M	0414 5.0 152 1025 0.4 12 1636 6.1 186 2313 0.5 15	29 Tu	0532 5.2 158 1147 0.6 18 1754 5.8 177
15 W	0245 4.2 128 0849 0.6 18 1511 5.0 152 2153 1.1 34	30 Th	0313 4.7 143 0936 0.0 0 1559 6.1 186 2233 0.3 9	15 Sa	0348 4.4 134 0956 0.5 15 1613 5.6 171 2257 0.9 27	30 Su	0500 4.9 149 1117 0.4 12 1733 6.0 183 2357 0.5 15	15 Tu	0508 5.4 165 1119 0.0 0 1728 6.4 195	30 W	0008 0.6 18 0613 5.4 165 1228 0.6 18 1833 5.8 177
		31 F	0414 4.7 143 1033 0.0 0 1656 6.1 186 2327 0.2 6			31 M	0551 5.0 152 1205 0.3 9 1819 6.0 183				

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Myrtle Beach, South Carolina, 2020

Times and Heights of High and Low Waters

October				November				December										
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height					
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm				
1 Th O	0043	0.5	15		16 F	0018	-0.4	-12		1 Su	0118	0.4	12					
	0650	5.6	171		0628	6.8	207		16 M	0132	-0.8	-24		1 Tu	0126	0.1	3	
	1307	0.6	18		1247	-0.5	-15		0727	5.8	177		16 W	0736	5.7	174		
	1910	5.8	177		1845	6.6	201		1358	0.7	21		1414	0.5	15			
2 F	0118	0.5	15		17 Sa	0106	-0.6	-18		2 M	0154	0.4	12		2 W	0205	0.1	3
	0724	5.6	171		0718	7.1	216		0800	5.8	177		17 Tu	0812	5.6	171		
	1345	0.7	21		1340	-0.6	-18		1436	0.8	24		17 Th	1453	0.5	15		
	1945	5.6	171		1935	6.4	195		2026	4.9	149		2038	4.4	134			
3 Sa	0152	0.5	15		18 Su	0154	-0.6	-18		3 Tu	0231	0.5	15		3 Th	0246	0.2	6
	0758	5.7	174		0809	7.2	219		0835	5.7	174		18 W	0937	6.6	201		
	1422	0.8	24		1433	-0.5	-15		1514	0.9	27		3 F	1533	0.6	18		
	2020	5.4	165		2026	6.2	189		2103	4.7	143		2158	5.1	155			
4 Su	0227	0.6	18		19 M	0244	-0.5	-15		4 W	0309	0.7	21		4 F	0328	0.3	9
	0831	5.6	171		0901	7.1	216		0914	5.6	171		19 Th	0936	5.4	165		
	1500	0.9	27		1527	-0.3	-9		1553	1.1	34		4 Sa	1615	0.6	18		
	2056	5.1	155		2120	5.8	177		2144	4.4	134		2210	4.2	128			
5 M	0302	0.7	21		20 Tu	0334	-0.2	-6		5 Th	0350	0.8	24		5 Sa	0414	0.4	12
	0906	5.5	168		0958	6.8	207		0959	5.4	165		19 F	1027	5.3	162		
	1538	1.1	34		1621	0.1	3		1635	1.2	37		5 Su	1700	0.7	21		
	2134	4.8	146		2219	5.4	165		2234	4.3	131		2307	4.3	131			
6 Tu	0339	0.8	24		21 W	0428	0.1	3		6 F	0434	0.9	27		6 Su	0504	0.5	15
	0946	5.4	165		1100	6.4	195		1051	5.3	162		21 Th	1123	5.3	162		
	1617	1.3	40		1718	0.5	15		1722	1.3	40		6 M	1750	0.6	18		
	2217	4.6	140		2323	5.1	155		2331	4.3	131		1851	0.8	24			
7 W	0418	1.0	30		22 Th	0526	0.5	15		7 Sa	0524	1.0	30		7 M	0007	4.4	134
	1031	5.3	162		1204	6.1	186		1149	5.3	162		22 Tu	0601	0.5	15		
	1700	1.5	46		1821	0.8	24		1816	1.2	37		7 W	1221	5.2	158		
	2306	4.4	134										1846	0.5	15			
8 Th	0501	1.1	34		23 F	0029	4.9	149		8 Su	0031	4.4	134		8 Tu	0107	4.7	143
	1123	5.3	162		0631	0.8	24		0622	1.0	30		23 M	0707	0.5	15		
	1748	1.6	49		1306	5.9	180		1247	5.4	165		8 W	1319	5.2	158		
					1928	1.0	30		1918	1.1	34		1947	0.3	9			
9 F	0000	4.3	131		24 Sa	0132	4.8	146		9 M	0130	4.7	143		9 W	0205	5.1	155
	0550	1.2	37		0744	1.0	30		0729	0.9	27		24 Tu	0817	0.4	12		
	1219	5.3	162		1405	5.7	174		1345	5.5	168		9 Th	1417	5.2	158		
	1846	1.6	49		2034	1.0	30		2021	0.8	24		2048	0.0	0			
10 Sa	0057	4.4	134		25 Su	0232	4.8	146		10 Tu	0228	5.0	152		10 Th	0303	5.5	168
	0649	1.2	37		0854	1.1	34		0838	0.6	18		10 W	0924	0.1	3		
	1317	5.4	165		1500	5.5	168		1443	5.7	174		10 F	1516	5.3	162		
	1952	1.5	46		2130	1.0	30		2119	0.4	12		2145	-0.3	-9			
11 Su	0154	4.6	140		26 M	0328	4.9	149		11 W	0326	5.5	168		11 F	0401	5.9	180
	0756	1.0	30		0952	1.0	30		0942	0.3	9		11 Sa	1026	-0.2	-6		
	1414	5.6	171		1552	5.5	168		1541	5.8	177		11 M	1615	5.3	162		
	2055	1.2	37		2216	0.8	24		2212	0.0	0		2239	-0.6	-18			
12 M	0252	4.9	149		27 Tu	0419	5.1	155		12 Th	0422	6.0	183		12 Sa	0458	6.3	192
	0902	0.8	24		1041	0.9	27		1041	-0.1	-3		12 Su	1123	-0.5	-15		
	1511	5.9	180		1639	5.4	165		1637	6.0	183		12 M	1713	5.3	162		
	2152	0.8	24		2256	0.7	21		2303	-0.4	-12		2331	-0.8	-24			
13 Tu	0349	5.4	165		28 W	0505	5.3	162		13 F	0516	6.5	198		13 Su	0552	6.6	201
	1003	0.4	12		1125	0.8	24		1137	-0.4	-12		13 M	1218	-0.7	-21		
	1608	6.1	186		1723	5.4	165		1732	6.1	186		13 Tu	1808	5.4	165		
	2242	0.3	9		2332	0.5	15		2352	-0.6	-18							
14 W	0444	5.9	180		29 Th	0545	5.5	168		14 Sa	0609	6.9	210		14 M	0023	-0.9	-27
	1059	0.0	0		1204	0.7	21		1231	-0.6	-18		14 Tu	0644	6.8	207		
	1702	6.4	195		1802	5.4	165		1825	6.1	186		14 W	1310	-0.7	-21		
	2331	-0.1	-3										1900	5.3	162			
15 Th	0537	6.4	195		30 F	0007	0.4	12		15 Su	0042	-0.8	-24		15 M	0114	-0.9	-27
	1154	-0.3	-9		0621	5.6	171		0659	7.2	219		30 M	0735	6.8	207		
	1754	6.6	201		1243	0.7	21		1325	-0.7	-21		15 Tu	1402	-0.7	-21		
					1840	5.4	165		1916	5.9	180		1951	5.2	158			
				31 Sa	0042	0.4	12						31 Th	0145	-0.3	-9		
				0654	5.7	174							0753	5.6	171			
				1320	0.6	18							1432	0.1	3			
				1915	5.3	162							2018	4.4	134			

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Charleston, South Carolina, 2020

Times and Heights of High and Low Waters

January				February				March											
Time		Height		Time		Height		Time		Height		Time		Height					
h	m	ft	cm	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm				
1 W	0547	0.8	24	16 Th	0001	5.2	158	1 Sa	0028	4.6	140	16 Su	0146	5.4	165				
	1212	4.8	146		0612	-0.3	-9		0645	0.9	27		0803	0.1	3	0606	0.8	24	
	1827	0.6	18		1217	5.4	165		1253	4.2	128		1356	4.6	140	1817	0.5	15	
2 Th	0031	4.4	134	17 F	0104	5.3	162	2 Su	0120	4.6	140	17 M	0251	5.4	165	2 M	0028	4.9	149
	0639	1.0	30		0715	-0.1	-3		0744	1.0	30		0907	0.2	6		0702	0.9	27
	1259	4.6	140		1316	5.1	155		1347	4.1	125		1459	4.5	137		1258	4.1	125
3 F	0123	4.5	137	18 Sa	0208	5.3	162	3 M	0217	4.7	143	18 Tu	0355	5.4	165	3 Tu	0126	4.9	149
	0735	1.1	34		0821	0.0	0		0848	0.9	27		1009	0.2	6		0805	0.9	27
	1350	4.4	134		1417	4.8	146		1445	4.1	125		1602	4.4	134		1400	4.1	125
4 Sa	0218	4.6	140	19 Su	0312	5.4	165	4 Tu	0317	4.9	149	19 W	0454	5.4	165	4 W	0232	5.1	155
	0836	1.1	34		0927	0.1	3		0951	0.7	21		1106	0.2	6		0912	0.8	24
	1442	4.3	131		1519	4.7	143		1545	4.2	128		1700	4.5	137		1506	4.2	128
5 Su	0312	4.8	146	20 M	0414	5.6	171	5 W	0417	5.2	158	20 Th	0547	5.5	168	5 Th	0339	5.3	162
	0936	0.9	27		1029	0.0	0		1050	0.4	12		1157	0.0	0		1016	0.5	15
	1536	4.3	131		1619	4.6	140		1643	4.3	131		1752	4.7	143		1611	4.5	137
6 M	0405	5.1	155	21 Tu	0511	5.7	174	6 Th	0514	5.6	171	21 F	0005	-0.2	-6	6 F	0443	5.6	171
	1032	0.7	21		1125	-0.1	-3		1144	0.1	3		1243	-0.1	-3		1114	0.1	3
	1628	4.4	134		1716	4.7	143		1738	4.6	140		1839	4.8	146		1712	4.9	149
7 Tu	0456	5.4	165	22 W	0604	5.8	177	7 F	0608	5.9	180	22 Sa	0051	-0.2	-6	7 Sa	0542	6.0	183
	1124	0.4	12		1217	-0.2	-6		1234	-0.2	-6		1325	-0.1	-3		1207	-0.3	-9
	1719	4.5	137		1809	4.7	143		1831	4.9	149		1921	4.9	149		1808	5.3	162
8 W	0545	5.7	174	23 Th	0021	-0.5	-15	8 Sa	0038	-0.9	-27	23 Su	0134	-0.2	-6	8 Su	0019	-0.9	-27
	1213	0.2	6		0653	5.8	177		0659	6.2	189		0756	5.5	168		0636	6.2	189
	1807	4.6	140		1305	-0.3	-9		1323	-0.5	-15		1403	-0.2	-6		1257	-0.6	-18
9 Th	0010	-0.5	-15	24 F	0108	-0.5	-15	9 Su	0129	-1.2	-37	24 M	0213	-0.2	-6	9 M	0113	-1.2	-37
	0633	5.9	180		0738	5.8	177		0749	6.3	192		0832	5.5	168		0727	6.4	195
	1300	-0.1	-3		1350	-0.3	-9		1410	-0.8	-24		1439	-0.1	-3		1345	-0.9	-27
10 F	0058	-0.7	-21	25 Sa	0152	-0.4	-12	10 M	0220	-1.3	-40	25 Tu	0250	-0.1	-3	10 Tu	0206	-1.3	-40
	0720	6.2	189		0819	5.7	174		0837	6.4	195		0907	5.3	162		0817	6.4	195
	1346	-0.3	-9		1431	-0.2	-6		1457	-0.9	-27		1513	-0.1	-3		1432	-1.1	-34
11 Sa	0146	-0.9	-27	26 Su	0233	-0.3	-9	11 Tu	0312	-1.3	-40	26 W	0326	0.1	3	11 W	0258	-1.3	-40
	0806	6.3	192		0858	5.6	171		0925	6.3	192		0940	5.1	155		0905	6.2	189
	1432	-0.5	-15		1511	-0.1	-3		1544	-0.9	-27		1546	0.0	0		1519	-1.1	-34
12 Su	0234	-1.0	-30	27 M	0313	-0.1	-3	12 W	0405	-1.1	-34	27 Th	0402	0.3	9	12 Th	0351	-1.1	-34
	0853	6.3	192		0936	5.4	165		1014	6.0	183		1013	4.9	149		0954	5.9	180
	1519	-0.5	-15		1548	0.0	0		1632	-0.9	-27		1618	0.2	6		1607	-0.9	-27
13 M	0325	-1.0	-30	28 Tu	0351	0.1	3	13 Th	0459	-0.8	-24	28 F	0439	0.5	15	13 F	0444	-0.8	-24
	0941	6.2	189		1012	5.2	158		1104	5.6	171		1046	4.6	140		1045	5.6	171
	1606	-0.6	-18		1624	0.1	3		1722	-0.7	-21		1653	0.3	9		1657	-0.6	-18
14 Tu	0417	-0.8	-24	29 W	0429	0.3	9	14 F	0557	-0.5	-15	29 Sa	0520	0.6	18	14 Sa	0540	-0.4	-12
	1031	6.0	183		1048	4.9	149		1157	5.3	162		1123	4.4	134		1138	5.2	158
	1655	-0.5	-15		1659	0.2	6		1815	-0.5	-15		1731	0.4	12		1749	-0.3	-9
15 W	0512	-0.6	-18	30 Th	0510	0.5	15	15 Sa	0043	5.5	168	30 Su	0020	5.8	177	15 Su	0639	0.0	0
	1123	5.7	174		1126	4.7	143		0658	-0.1	-3		1255	4.9	149		1234	4.8	146
	1747	-0.5	-15		1736	0.3	9		1912	-0.3	-9		1846	0.0	0		1846	0.0	0
16 Th	0554	0.7	21	31 F	0554	0.7	21												
	1207	4.4	134		1207	4.4	134												
	1817	0.4	12		1817	0.4	12												

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Charleston, South Carolina, 2020

Times and Heights of High and Low Waters

October				November				December			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft	h m	ft	h m	ft	h m	ft	h m	ft	h m	ft
1 Th	0112 0.5 15 0716 5.9 180 1332 0.6 18 1942 5.9 180	16 F	0049 -0.4 -12 0702 6.9 210 1320 -0.5 -15 1920 6.6 201	1 Su	0148 0.4 12 0801 6.1 186 1424 0.7 21 2024 5.3 162	16 M	0202 -0.8 -24 0829 7.1 216 1449 -0.5 -15 2041 5.8 177	1 Tu	0154 0.1 3 0812 6.0 183 1439 0.5 15 2034 4.8 146	16 W	0234 -0.8 -24 0905 6.6 201 1522 -0.5 -15 2114 5.2 158
2 F	0149 0.5 15 0754 5.9 180 1411 0.7 21 2018 5.8 177	17 Sa	0137 -0.6 -18 0754 7.1 216 1413 -0.6 -18 2010 6.5 198	2 M	0222 0.5 15 0835 6.0 183 1501 0.8 24 2058 5.1 155	17 Tu	0252 -0.6 -18 0922 7.0 213 1542 -0.3 -9 2134 5.6 171	2 W	0232 0.2 6 0848 5.9 180 1517 0.5 15 2110 4.7 143	17 Th	0324 -0.5 -15 0955 6.3 192 1612 -0.2 -6 2205 5.0 152
3 Sa	0223 0.5 15 0830 5.9 180 1448 0.8 24 2053 5.6 171	18 Su	0225 -0.6 -18 0847 7.2 219 1506 -0.4 -12 2101 6.3 192	3 Tu	0257 0.6 18 0909 6.0 183 1538 0.9 27 2132 4.9 149	18 W	0344 -0.3 -9 1016 6.7 204 1635 0.0 0 2228 5.3 162	3 Th	0311 0.2 6 0925 5.8 177 1557 0.6 18 2148 4.6 140	18 F	0414 -0.2 -6 1045 5.9 180 1701 0.0 0 2257 4.9 149
4 Su	0256 0.6 18 0904 5.9 180 1525 1.0 30 2127 5.3 162	19 M	0315 -0.5 -15 0941 7.1 216 1600 -0.2 -6 2154 5.9 180	4 W	0333 0.7 21 0944 5.9 180 1617 1.1 34 2208 4.8 146	19 Th	0437 0.0 0 1111 6.3 192 1729 0.3 9 2324 5.1 155	4 F	0353 0.3 9 1005 5.8 177 1641 0.6 18 2230 4.6 140	19 Sa	0506 0.2 6 1135 5.6 171 1751 0.3 9 2350 4.7 143
5 M	0329 0.7 21 0938 5.8 177 1602 1.1 34 2201 5.1 155	20 Tu	0405 -0.2 -6 1036 6.9 210 1655 0.1 3 2249 5.6 171	5 Th	0413 0.8 24 1024 5.8 177 1701 1.2 37 2249 4.7 143	20 F	0532 0.4 12 1208 5.9 180 1825 0.6 18	5 Sa	0440 0.4 12 1051 5.7 174 1728 0.6 18 2320 4.6 140	20 Su	0559 0.5 15 1225 5.2 158 1840 0.4 12
6 Tu	0404 0.9 27 1014 5.8 177 1642 1.3 40 2237 4.9 149	21 W	0459 0.1 3 1135 6.5 198 1753 0.5 15 2347 5.3 162	6 F	0459 0.9 27 1111 5.7 174 1750 1.2 37 2339 4.6 140	21 Sa	0023 4.9 149 0632 0.7 21 1306 5.6 171 1921 0.7 21	6 Su	0533 0.4 12 1143 5.6 171 1820 0.6 18	21 M	0044 4.6 140 0656 0.8 24 1316 4.9 149 1931 0.5 15
7 W	0442 1.0 30 1054 5.7 174 1725 1.4 43 2318 4.8 146	22 Th	0557 0.5 15 1236 6.2 189 1852 0.8 24	7 Sa	0552 0.9 27 1206 5.7 174 1846 1.2 37	22 Su	0123 4.8 146 0734 0.9 27 1402 5.4 165 2016 0.8 24	7 M	0019 4.7 143 0633 0.5 15 1241 5.5 168 1917 0.4 12	22 Tu	0139 4.6 140 0755 1.0 30 1407 4.7 143 2020 0.6 18
8 Th	0527 1.1 34 1141 5.6 171 1816 1.5 46	23 F	0049 5.1 155 0659 0.8 24 1338 6.0 183 1953 0.9 27	8 Su	0040 4.7 143 0653 0.9 27 1307 5.7 174 1946 1.0 30	23 M	0222 4.9 149 0836 1.0 30 1455 5.3 162 2108 0.7 21	8 Tu	0124 4.9 149 0739 0.4 12 1343 5.5 168 2015 0.2 6	23 W	0234 4.7 143 0854 1.0 30 1458 4.6 140 2109 0.5 15
9 F	0008 4.7 143 0618 1.1 34 1236 5.6 171 1914 1.5 46	24 Sa	0152 5.1 155 0804 0.9 27 1439 5.8 177 2052 1.0 30	9 M	0146 4.9 149 0759 0.8 24 1412 5.8 177 2046 0.7 21	24 Tu	0317 5.0 152 0935 1.0 30 1545 5.2 158 2157 0.6 18	9 W	0231 5.2 158 0847 0.3 9 1445 5.5 168 2114 -0.1 -3	24 Th	0327 4.9 149 0951 1.0 30 1549 4.5 137 2156 0.4 12
10 Sa	0108 4.7 143 0718 1.1 34 1339 5.7 174 2017 1.4 43	25 Su	0253 5.1 155 0907 1.0 30 1534 5.8 177 2146 0.9 27	10 Tu	0253 5.2 158 0907 0.5 15 1514 5.9 180 2144 0.4 12	25 W	0408 5.2 158 1028 0.9 27 1632 5.1 155 2241 0.5 15	10 Th	0335 5.6 171 0953 0.1 3 1547 5.5 168 2211 -0.4 -12	25 F	0417 5.1 155 1043 0.8 24 1638 4.5 137 2242 0.3 9
11 Su	0212 4.8 146 0823 0.9 27 1443 5.9 180 2118 1.1 34	26 M	0350 5.2 158 1005 1.0 30 1625 5.7 174 2235 0.8 24	11 W	0355 5.7 174 1011 0.2 6 1614 6.0 183 2239 0.0 0	26 Th	0455 5.5 168 1117 0.8 24 1717 5.1 155 2322 0.3 9	11 F	0435 6.1 186 1055 -0.2 -6 1646 5.5 168 2307 -0.6 -18	26 Sa	0505 5.3 162 1131 0.6 18 1725 4.6 140 2326 0.1 3
12 M	0317 5.1 155 0929 0.6 18 1545 6.1 186 2216 0.7 21	27 Tu	0441 5.4 165 1057 0.9 27 1711 5.7 174 2319 0.6 18	12 Th	0454 6.2 189 1112 -0.1 -3 1710 6.2 189 2332 -0.4 -12	27 F	0539 5.7 174 1201 0.7 21 1759 5.1 155	12 Sa	0533 6.5 198 1153 -0.5 -15 1743 5.5 168	27 Su	0550 5.5 168 1215 0.5 15 1811 4.6 140
13 Tu	0418 5.5 168 1031 0.3 9 1643 6.4 195 2309 0.3 9	28 W	0527 5.7 174 1144 0.8 24 1753 5.7 174	13 F	0550 6.6 201 1209 -0.4 -12 1804 6.2 189	28 Sa	0002 0.2 6 0620 5.8 177 1243 0.6 18 1840 5.1 155	13 Su	0000 -0.8 -24 0628 6.7 204 1249 -0.6 -18 1838 5.5 168	28 M	0008 0.0 0 0632 5.6 171 1257 0.3 9 1854 4.6 140
14 W	0515 6.0 183 1130 -0.1 -3 1737 6.6 201	29 Th	0000 0.5 15 0609 5.9 180 1228 0.7 21 1832 5.7 174	14 Sa	0022 -0.6 -18 0643 7.0 213 1304 -0.6 -18 1857 6.2 189	29 Su	0040 0.2 6 0659 5.9 180 1323 0.5 15 1920 5.0 152	14 M	0052 -0.9 -27 0721 6.8 207 1341 -0.7 -21 1931 5.5 168	29 Tu	0050 -0.2 -6 0713 5.8 177 1337 0.2 6 1934 4.6 140
15 Th	0000 -0.1 -3 0609 6.5 198 1225 -0.4 -12 1829 6.7 204	30 F	0038 0.4 12 0648 6.0 183 1308 0.7 21 1911 5.6 171	15 Su	0112 -0.8 -24 0736 7.2 219 1357 -0.6 -18 1949 6.0 183	30 M	0117 0.1 3 0736 6.0 183 1401 0.5 15 1958 4.9 149	15 Tu	0143 -0.9 -27 0814 6.8 207 1432 -0.6 -18 2023 5.4 165	30 W	0131 -0.2 -6 0753 5.8 177 1417 0.1 3 2014 4.7 143
		31 Sa	0113 0.4 12 0726 6.1 186 1347 0.7 21 1948 5.5 168						31 Th	0212 -0.3 -9 0831 5.8 177 1457 0.1 3 2052 4.7 143	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Savannah River Entrance, Georgia, 2020

Times and Heights of High and Low Waters

October				November				December						
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height	
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm
1 Th O	0130	0.5	15		16 F	0107	-0.5	-15		1 Su	0210	0.5	15	
	0723	7.7	235			0710	8.8	268			0810	7.9	241	
	1349	0.8	24			1340	-0.7	-21			1440	0.8	24	
	1950	7.6	232			1930	8.7	265			2034	6.9	210	
2 F	0207	0.5	15		17 Sa	0157	-0.8	-24		2 M	0246	0.6	18	
	0802	7.7	235			0800	9.1	277			0845	7.8	238	
	1428	0.8	24			1433	-0.7	-21			1517	0.9	27	
	2027	7.4	226			2020	8.5	259			2108	6.7	204	
3 Sa	0243	0.6	18		18 Su	0246	-0.8	-24		3 Tu	0322	0.7	21	
	0838	7.7	235			0852	9.1	277			0920	7.7	235	
	1505	0.9	27			1525	-0.6	-18			1554	1.0	30	
	2102	7.2	219			2110	8.3	253			2143	6.5	198	
4 Su	0317	0.7	21		19 M	0335	-0.7	-21		4 W	0359	0.8	24	
	0914	7.7	235			0945	9.0	274			0957	7.6	232	
	1541	1.1	34			1616	-0.3	-9			1632	1.2	37	
	2137	6.9	210			2203	7.9	241			2221	6.3	192	
5 M	0352	0.9	27		20 Tu	0424	-0.3	-9		5 Th	0439	1.0	30	
	0950	7.5	229			1041	8.7	265			1040	7.4	226	
	1617	1.3	40			1709	0.1	3			1714	1.3	40	
	2213	6.6	201			2300	7.4	226			2306	6.1	186	
6 Tu	0427	1.0	30		21 W	0515	0.1	3		6 F	0523	1.1	34	
	1028	7.4	226			1141	8.3	253			1130	7.3	223	
	1655	1.5	46			1805	0.5	15			1802	1.4	43	
	2253	6.4	195											
7 W	0505	1.2	37		22 Th	0000	7.1	216		7 Sa	0000	6.1	186	
	1112	7.3	223			0610	0.6	18			0614	1.2	37	
	1737	1.7	52			1243	7.9	241			1227	7.3	223	
	2339	6.2	189			1904	0.9	27			1857	1.4	43	
8 Th	0549	1.4	43		23 F	0100	6.8	207		8 Su	0059	6.2	189	
	1202	7.2	219			0711	1.0	30			0714	1.2	37	
	1826	1.8	55			1343	7.6	232			1326	7.4	226	
						2007	1.2	37			1958	1.3	40	
9 F	0031	6.1	186		24 Sa	0200	6.7	204		9 M	0200	6.5	198	
	0640	1.5	46			0818	1.3	40			0821	1.1	34	
	1257	7.2	219			1441	7.4	226			1426	7.5	229	
	1924	1.9	58			2109	1.2	37			2101	0.9	27	
10 Sa	0128	6.2	189		25 Su	0257	6.8	207		10 Tu	0301	6.9	210	
	0740	1.5	46			0923	1.3	40			0928	0.8	24	
	1356	7.4	226			1537	7.3	223			1525	7.7	235	
	2029	1.7	52			2204	1.1	34			2201	0.5	15	
11 Su	0227	6.4	195		26 M	0352	6.9	210		11 W	0402	7.4	226	
	0846	1.3	40			1022	1.3	40			1031	0.3	9	
	1455	7.6	232			1629	7.3	223			1624	7.9	241	
	2132	1.4	43			2253	0.9	27			2256	0.0	0	
12 M	0326	6.8	207		27 Tu	0444	7.1	216		12 Th	0500	8.0	244	
	0951	0.9	27			1113	1.1	34			1131	-0.1	-3	
	1554	7.9	241			1717	7.3	223			1721	8.0	244	
	2231	0.9	27			2336	0.8	24			2350	-0.5	-15	
13 Tu	0426	7.2	219		28 W	0532	7.3	223		13 F	0556	8.5	259	
	1052	0.4	12			1159	1.0	30			1227	-0.5	-15	
	1652	8.2	250			1801	7.3	223			1815	8.1	247	
	2325	0.4	12											
14 W	0523	7.8	238		29 Th	0017	0.6	18		14 Sa	0041	-0.8	-24	
	1150	0.0	0			0616	7.6	232			0650	8.9	271	
	1747	8.5	259			1243	0.9	27			1322	-0.7	-21	
						1842	7.3	223			1908	8.2	250	
15 Th	0017	-0.1	-3		30 F	0056	0.5	15		15 Su	0133	-1.0	-30	
	0618	8.4	256			0656	7.8	238			0742	9.1	277	
	1245	-0.4	-12			1323	0.8	24			1416	-0.8	-24	
	1839	8.7	265			1921	7.3	223			1959	8.0	244	
					31 Sa	0133	0.5	15						
						0734	7.9	241						
						1402	0.8	24						
						1958	7.1	216						
					31 Th	0238	-0.3	-9						
						0840	7.6	232						
						1514	0.0	0						
						2101	6.3	192						

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Fernandina Beach, Amelia River, Florida, 2020

Times and Heights of High and Low Waters

April				May				June			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m ft cm	ft cm	h m ft cm	ft cm	h m ft cm	ft cm	h m ft cm	ft cm	h m ft cm	ft cm	h m ft cm	ft cm
1 W O	0154 6.0 183 0819 0.9 27 1423 5.1 155 2027 0.6 18	16 Th	0344 5.9 180 0952 0.7 21 1604 5.4 165 2206 0.9 27	1 F	0233 6.2 189 0854 0.4 12 1508 5.5 168 2212 0.4 12	16 Sa	0356 5.5 168 1004 0.5 15 1624 5.5 168 2229 1.0 30	1 M	0417 6.2 189 1022 -0.5 -15 1659 6.6 201 2302 -0.2 -6	16 Tu	0449 5.2 158 1048 0.2 6 1721 6.0 183 2332 0.7 21
2 Th	0258 6.0 183 0920 0.7 21 1529 5.2 158 2133 0.4 12	17 F	0442 5.8 177 1043 0.6 18 1702 5.5 168 2302 0.8 24	2 Sa	0338 6.3 192 0952 0.2 6 1615 5.9 180 2217 0.1 3	17 Su	0448 5.5 168 1049 0.4 12 1715 5.8 177 2321 0.9 27	2 Tu	0518 6.2 189 1117 -0.8 -24 1759 7.0 213	17 W	0538 5.2 158 1132 0.1 3 1808 6.2 189
3 F	0407 6.2 189 1020 0.4 12 1638 5.6 171 2237 0.1 3	18 Sa	0534 5.8 177 1131 0.5 15 1753 5.8 177 2354 0.7 21	3 Su	0444 6.4 195 1049 -0.2 -6 1719 6.4 195 2320 -0.2 -6	18 M	0536 5.5 168 1133 0.3 9 1802 6.1 186	3 W	0002 -0.5 -15 0616 6.2 189 1211 -0.9 -27 1855 7.4 226	18 Th	0019 0.6 18 0626 5.2 158 1216 0.0 0 1853 6.5 198
4 Sa	0513 6.5 198 1118 0.1 3 1741 6.1 186 2339 -0.3 -9	19 Su	0620 5.9 180 1215 0.4 12 1838 6.0 183	4 M	0545 6.6 201 1144 -0.6 -18 1818 7.0 213	19 Tu	0009 0.7 21 0622 5.6 171 1215 0.2 6 1845 6.3 192	4 Th	0059 -0.7 -21 0712 6.2 189 1304 -1.0 -30 1949 7.5 229	19 F	0105 0.4 12 0712 5.3 162 1300 -0.1 -3 1937 6.6 201
5 Su	0613 6.8 207 1213 -0.4 -12 1839 6.6 201	20 M	0041 0.5 15 0703 5.9 180 1256 0.2 6 1920 6.3 192	5 Tu	0020 -0.6 -18 0641 6.7 204 1237 -0.9 -27 1913 7.4 226	20 W	0054 0.5 15 0705 5.6 171 1255 0.1 3 1927 6.5 198	5 F	0153 -0.8 -24 0805 6.2 189 1355 -1.0 -30 2041 7.6 232	20 Sa	0148 0.2 6 0757 5.3 162 1342 -0.2 -6 2021 6.7 204
6 M	0038 -0.7 -21 0707 7.0 213 1305 -0.8 -24 1934 7.1 216	21 Tu	0125 0.4 12 0743 5.9 180 1335 0.1 3 1959 6.5 198	6 W	0117 -0.9 -27 0735 6.8 207 1328 -1.1 -34 2007 7.7 235	21 Th	0137 0.3 9 0747 5.6 171 1335 0.0 0 2007 6.7 204	6 Sa	0245 -0.8 -24 0858 6.1 186 1444 -0.9 -27 2133 7.4 226	21 Su	0230 0.0 0 0842 5.3 162 1424 -0.3 -9 2105 6.8 207
7 Tu	0134 -1.1 -34 0800 7.2 219 1354 -1.1 -34 2026 7.5 229	22 W	0205 0.3 9 0822 5.9 180 1410 0.1 3 2037 6.6 201	7 Th	0210 -1.0 -30 0827 6.7 204 1418 -1.2 -37 2059 7.8 238	22 F	0217 0.2 6 0828 5.5 168 1412 0.0 0 2047 6.7 204	7 Su	0334 -0.6 -18 0950 5.9 180 1533 -0.6 -18 2223 7.2 219	22 M	0311 -0.1 -3 0927 5.4 165 1507 -0.3 -9 2149 6.8 207
8 W	0227 -1.2 -37 0851 7.1 216 1442 -1.2 -37 2118 7.7 235	23 Th	0243 0.2 6 0900 5.8 177 1445 0.1 3 2114 6.6 201	8 F	0302 -1.0 -30 0919 6.6 201 1506 -1.0 -30 2151 7.7 235	23 Sa	0255 0.1 3 0909 5.5 168 1450 0.0 0 2127 6.7 204	8 M	0423 -0.4 -12 1040 5.7 174 1621 -0.2 -6 2312 6.8 207	23 Tu	0353 -0.1 -3 1013 5.4 165 1551 -0.3 -9 2235 6.7 204
9 Th	0318 -1.2 -37 0941 7.0 213 1530 -1.2 -37 2210 7.7 235	24 F	0319 0.2 6 0937 5.7 174 1518 0.1 3 2151 6.6 201	9 Sa	0353 -0.8 -24 1011 6.4 195 1554 -0.8 -24 2243 7.5 229	24 Su	0333 0.1 3 0950 5.4 165 1528 0.0 0 2207 6.6 201	9 Tu	0512 -0.1 -3 1130 5.5 168 1711 0.2 6 2359 6.4 195	24 W	0437 -0.1 -3 1101 5.4 165 1639 -0.2 -6 2322 6.7 204
10 F	0409 -1.0 -30 1032 6.7 204 1617 -0.9 -27 2302 7.5 229	25 Sa	0355 0.3 9 1015 5.5 168 1552 0.2 6 2228 6.5 198	10 Su	0443 -0.5 -15 1102 6.1 186 1644 -0.4 -12 2334 7.1 216	25 M	0413 0.2 6 1032 5.3 162 1608 0.1 3 2250 6.6 201	10 W	0602 0.2 6 1218 5.4 165 1804 0.6 18	25 Th	0524 -0.2 -6 1150 5.5 168 1732 -0.1 -3
11 Sa	0502 -0.7 -21 1122 6.4 195 1707 -0.6 -18 2354 7.2 219	26 Su	0432 0.4 12 1053 5.4 165 1629 0.3 9 2307 6.4 195	11 M	0535 -0.1 -3 1153 5.8 177 1736 0.1 3	26 Tu	0455 0.2 6 1116 5.3 162 1652 0.2 6 2335 6.5 198	11 Th	0045 6.1 186 0653 0.4 12 1307 5.3 162 1901 0.9 27	26 F	0010 6.6 201 0615 -0.2 -6 1242 5.7 174 1831 0.1 3
12 Su	0557 -0.2 -6 1214 6.0 183 1801 -0.1 -3	27 M	0513 0.5 15 1133 5.3 162 1710 0.4 12 2350 6.3 192	12 Tu	0025 6.7 204 0630 0.2 6 1244 5.6 171 1833 0.5 15	27 W	0542 0.3 9 1203 5.3 162 1744 0.3 9	12 F	0130 5.8 177 0744 0.5 15 1356 5.3 162 2000 1.1 34	27 Sa	0101 6.4 195 0710 -0.3 -9 1337 5.9 180 1936 0.1 3
13 M	0048 6.8 207 0655 0.2 6 1307 5.7 174 1859 0.3 9	28 Tu	0600 0.6 18 1217 5.2 158 1800 0.5 15	13 W	0116 6.3 192 0727 0.5 15 1337 5.4 165 1934 0.9 27	28 Th	0023 6.4 195 0635 0.3 9 1254 5.4 165 1843 0.3 9	13 Sa	0217 5.5 168 0833 0.5 15 1447 5.4 165 2057 1.1 34	28 Su	0155 6.2 189 0806 -0.4 -12 1437 6.1 186 2041 0.1 3
14 Tu	0144 6.4 195 0756 0.5 15 1403 5.5 168 2002 0.7 21	29 W	0038 6.3 192 0654 0.7 21 1306 5.2 158 1859 0.6 18	14 Th	0208 5.9 180 0823 0.6 18 1432 5.3 162 2036 1.0 30	29 F	0116 6.3 192 0732 0.2 6 1350 5.5 168 1949 0.3 9	14 Su	0306 5.3 162 0919 0.4 12 1540 5.5 168 2151 1.0 30	29 M	0253 6.0 183 0902 -0.5 -15 1539 6.4 195 2144 0.0 0
15 W	0243 6.1 186 0856 0.6 18 1503 5.3 162 2106 0.8 24	30 Th	0132 6.2 189 0753 0.6 18 1403 5.3 162 2005 0.5 15	15 F	0302 5.7 174 0915 0.6 18 1528 5.4 165 2135 1.1 34	30 Sa	0213 6.2 189 0829 0.0 0 1452 5.8 177 2055 0.2 6	15 M	0357 5.2 158 1004 0.3 9 1632 5.7 174 2242 0.9 27	30 Tu	0354 5.9 180 0958 -0.7 -21 1642 6.7 204 2245 -0.1 -3
						31 Su	0314 6.2 189 0926 -0.3 -9 1556 6.2 189 2200 0.0 0				

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Fernandina Beach, Amelia River, Florida, 2020

Times and Heights of High and Low Waters

July				August				September							
Time	Height			Time	Height			Time	Height			Time	Height		
	h	m	ft/cm		h	m	ft/cm		h	m	ft/cm		h	m	ft/cm
1 W	0455	5.8	177	16 Th	0455	5.0	152	1 Sa	0024	0.0	0	16 Su	0606	5.5	168
	1053	-0.8	-24		1050	0.2	6		0634	5.7	174		0142	0.3	9
	1742	7.0	213		1730	6.2	189		1226	-0.4	-12		0756	6.2	189
	2345	-0.3	-9		2342	0.7	21		1917	7.1	216		1350	0.3	9
													2027	6.9	210
2 Th	0555	5.8	177	17 F	0547	5.1	155	2 Su	0117	-0.1	-3	17 M	0046	0.4	12
	1148	-0.8	-24		1138	0.1	3		0727	5.8	177		0658	5.8	177
	1839	7.2	219		1820	6.4	195		1318	-0.3	-9		1250	-0.2	-6
									2006	7.0	213		1930	7.2	219
3 F	0042	-0.4	-12	18 Sa	0031	0.5	15	3 M	0206	-0.1	-3	18 Tu	0135	0.1	3
	0651	5.8	177		0638	5.3	162		0817	5.8	177		0749	6.1	186
	1243	-0.8	-24		1227	-0.1	-3		1407	-0.2	-6		1341	-0.4	-12
	1932	7.2	219		1909	6.7	204		2053	6.9	210		2019	7.3	223
4 Sa	0136	-0.5	-15	19 Su	0118	0.2	6	4 Tu	0251	-0.1	-3	19 W	0221	-0.2	-6
	0745	5.8	177		0727	5.4	165		0905	5.8	177		0840	6.4	195
	1335	-0.8	-24		1315	-0.3	-9		1453	0.0	0		1432	-0.6	-18
	2024	7.2	219		1956	6.9	210		2136	6.7	204		2108	7.4	226
5 Su	0226	-0.5	-15	20 M	0203	0.0	0	5 W	0333	0.0	0	20 Th	0306	-0.5	-15
	0838	5.8	177		0815	5.5	168		0950	5.8	177		0932	6.6	201
	1425	-0.6	-18		1402	-0.4	-12		1537	0.2	6		1522	-0.6	-18
	2114	7.1	216		2043	7.0	213		2217	6.5	198		2156	7.4	226
6 M	0314	-0.4	-12	21 Tu	0247	-0.2	-6	6 Th	0412	0.1	3	21 F	0352	-0.6	-18
	0928	5.7	174		0904	5.7	174		1033	5.8	177		1024	6.8	207
	1513	-0.4	-12		1449	-0.5	-15		1619	0.5	15		1613	-0.5	-15
	2201	6.9	210		2130	7.0	213		2256	6.2	189		2246	7.2	219
7 Tu	0400	-0.3	-9	22 W	0331	-0.3	-9	7 F	0451	0.3	9	22 Sa	0439	-0.6	-18
	1017	5.6	171		0953	5.8	177		1114	5.7	174		1116	7.0	213
	1559	-0.1	-3		1536	-0.5	-15		1702	0.8	24		1707	-0.3	-9
	2246	6.6	201		2217	7.0	213		2334	6.0	183		2335	7.0	213
8 W	0444	-0.1	-3	23 Th	0416	-0.4	-12	8 Sa	0530	0.5	15	23 Su	0529	-0.5	-15
	1103	5.5	168		1043	6.0	183		1155	5.7	174		1210	7.0	213
	1645	0.3	9		1626	-0.5	-15		1747	1.0	30		1804	0.0	0
	2329	6.3	192		2305	6.9	210								
9 Th	0528	0.2	6	24 F	0503	-0.5	-15	9 Su	0012	5.7	174	24 M	0027	6.7	204
	1148	5.4	165		1135	6.1	186		0610	0.6	18		0622	-0.3	-9
	1733	0.6	18		1720	-0.3	-9		1236	5.7	174		1305	7.0	213
					2354	6.8	207		1836	1.2	37		1906	0.3	9
10 F	0010	5.9	180	25 Sa	0553	-0.5	-15	10 M	0052	5.5	168	25 Tu	0120	6.4	195
	0613	0.3	9		1227	6.3	192		0653	0.7	21		0719	-0.2	-6
	1232	5.4	165		1819	-0.1	-3		1320	5.8	177		1403	7.0	213
	1824	0.9	27						1929	1.4	43		2010	0.5	15
11 Sa	0051	5.6	171	26 Su	0045	6.5	198	11 Tu	0135	5.3	162	26 W	0217	6.1	186
	0658	0.4	12		0646	-0.5	-15		0739	0.8	24		0819	0.0	0
	1317	5.4	165		1322	6.4	195		1407	5.8	177		1505	6.9	210
	1919	1.1	34		1922	0.1	3		2024	1.4	43		2113	0.6	18
12 Su	0133	5.4	165	27 M	0137	6.3	192	12 W	0223	5.2	158	27 Th	0318	5.9	180
	0744	0.5	15		0743	-0.5	-15		0828	0.7	21		0919	0.1	3
	1404	5.5	168		1421	6.5	198		1459	5.9	180		1609	6.9	210
	2014	1.2	37		2026	0.2	6		2118	1.3	40		2213	0.6	18
13 M	0218	5.2	158	28 Tu	0234	6.0	183	13 Th	0316	5.1	155	28 F	0421	5.8	177
	0830	0.5	15		0840	-0.4	-12		0919	0.7	21		1018	0.2	6
	1453	5.6	171		1522	6.6	201		1555	6.1	186		1711	6.9	210
	2109	1.1	34		2129	0.2	6		2212	1.2	37		2311	0.6	18
14 Tu	0308	5.1	155	29 W	0335	5.8	177	14 F	0413	5.2	158	29 Sa	0522	5.9	180
	0916	0.4	12		0937	-0.4	-12		1011	0.5	15		1115	0.2	6
	1545	5.7	174		1626	6.8	207		1652	6.3	192		1807	7.0	213
	2201	1.0	30		2229	0.2	6		2304	1.0	30				
15 W	0401	5.0	152	30 Th	0437	5.7	174	15 Sa	0511	5.3	162	30 Su	0005	0.5	15
	1003	0.3	9		1034	-0.4	-12		1104	0.3	9		0618	6.0	183
	1638	6.0	183		1727	6.9	210		1748	6.6	201		1210	0.2	6
	2252	0.9	27		2328	0.1	3		2356	0.7	21		1858	7.0	213
					31 F	0537	5.7	174				31 M	0056	0.4	12
						1130	-0.4	-12					0709	6.1	186
						1824	7.0	213					1302	0.3	9
													1944	7.0	213

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Mayport, Florida, 2020

Times and Heights of High and Low Waters

July				August				September																									
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																				
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm																			
1 W	0449	4.2	128		16 Th	0448	3.6	110		1 Sa	0014	0.1	3		16 Su	0600	4.2	128		1 Tu	0129	0.4	12		16 W	0051	0.3	9					
	1039	-0.6	-18			1035	0.2	6			0630	4.3	131			1142	0.2	6			0750	4.8	146			0717	5.4	165					
	1736	5.1	155			1725	4.5	137			1213	-0.2	-6			1831	5.2	158			1335	0.4	12			1305	0.0	0		1942	6.0	183	
	2334	-0.2	-6			2334	0.6	18			1909	5.3	162								2018	5.4	165										
2 Th	0548	4.2	128		17 F	0541	3.7	113		2 Su	0105	0.0	0		17 M	0035	0.4	12		2 W	0209	0.4	12		17 Th	0137	0.0	0					
	1134	-0.6	-18			1123	0.1	3			0722	4.3	131			0652	4.4	134			0832	4.9	149			0808	5.7	174					
	1831	5.3	162			1813	4.7	143			1304	-0.2	-6			1233	0.0	0			1417	0.5	15			1357	-0.1	-3					
3 F	0030	-0.3	-9		18 Sa	0022	0.4	12		3 M	0153	0.0	0		18 Tu	0121	0.2	6		3 Th	0247	0.4	12		18 F	0223	-0.1	-3					
	0644	4.2	128			0631	3.8	116			0811	4.4	134			0742	4.7	143			0912	4.9	149			0859	5.9	180					
	1227	-0.6	-18			1210	-0.1	-3			1352	-0.1	-3			1324	-0.2	-6			1457	0.6	18			1448	-0.1	-3					
	1923	5.4	165			1900	4.9	149			2043	5.2	158			2008	5.6	171			2134	5.2	158			2120	6.0	183					
4 Sa	0123	-0.4	-12		19 Su	0107	0.2	6		4 Tu	0236	0.0	0		19 W	0206	-0.1	-3		4 F	0322	0.5	15		19 Sa	0308	-0.2	-6					
	0738	4.2	128			0720	3.9	119			0857	4.4	134			0832	4.9	149			0949	4.9	149			0950	6.1	186					
	1318	-0.6	-18			1256	-0.2	-6			1437	0.0	0			1413	-0.3	-9			1535	0.7	21			1540	0.0	0					
	2014	5.4	165			1946	5.1	155			2125	5.1	155			2056	5.7	174			2209	5.0	152			2210	5.8	177					
5 Su	0212	-0.4	-12		20 M	0150	0.0	0		5 W	0318	0.0	0		20 Th	0250	-0.2	-6		5 Sa	0356	0.6	18		20 Su	0356	-0.1	-3					
	0829	4.2	128			0808	4.1	125			0940	4.4	134			0922	5.1	155			1026	4.9	149			1043	6.1	186					
	1407	-0.5	-15			1343	-0.3	-9			1520	0.2	6			1503	-0.3	-9			1614	0.9	27			1636	0.2	6					
	2102	5.3	162			2033	5.2	158			2205	5.0	152			2144	5.7	174			2244	4.8	146			2301	5.6	171					
6 M	0259	-0.3	-9		21 Tu	0233	-0.1	-3		6 Th	0358	0.1	3		21 F	0335	-0.3	-9		6 Su	0430	0.8	24		21 M	0447	0.1	3					
	0919	4.2	128			0857	4.2	128			1022	4.4	134			1013	5.3	162			1103	4.9	149			1137	6.0	183					
	1455	-0.3	-9			1429	-0.4	-12			1602	0.4	12			1555	-0.2	-6			1654	1.1	34			1736	0.5	15					
	2149	5.1	155			2119	5.3	162			2242	4.8	146			2232	5.6	171			2320	4.6	140			2354	5.3	162					
7 Tu	0345	-0.2	-6		22 W	0316	-0.2	-6		7 F	0437	0.3	9		22 Sa	0423	-0.3	-9		7 M	0505	0.9	27		22 Tu	0543	0.3	9					
	1006	4.2	128			0945	4.3	131			1102	4.3	131			1104	5.3	162			1142	4.8	146			1234	5.8	177					
	1542	-0.1	-3			1517	-0.4	-12			1646	0.6	18			1651	0.0	0			1739	1.3	40			1840	0.7	21					
	2233	4.9	149			2206	5.3	162			2319	4.5	137			2322	5.4	165			2358	4.4	134										
8 W	0431	-0.1	-3		23 Th	0401	-0.3	-9		8 Sa	0517	0.4	12		23 Su	0514	-0.2	-6		8 Tu	0544	1.0	30		23 W	0052	5.0	152					
	1052	4.1	125			1034	4.5	137			1142	4.3	131			1158	5.4	165			1224	4.8	146			0645	0.6	18					
	1630	0.2	6			1608	-0.3	-9			1732	0.8	24			1752	0.2	6			1831	1.5	46			1337	5.7	174					
	2315	4.7	143			2253	5.2	158			2357	4.3	131								1945	0.9	27			1945	0.9	27					
9 Th	0517	0.0	0		24 F	0449	-0.3	-9		9 Su	0558	0.5	15		24 M	0014	5.1	155		9 W	0041	4.2	128		24 Th	0155	4.8	146					
	1137	4.0	122			1125	4.6	140			1223	4.3	131			0609	0.0	0			0630	1.1	34			0749	0.8	24					
	1720	0.4	12			1705	-0.2	-6			1823	1.0	30			1255	5.3	162			1311	4.7	143			1443	5.5	168					
	2357	4.4	134			2342	5.0	152								1857	0.4	12			1928	1.5	46			2048	1.0	30					
10 F	0604	0.2	6		25 Sa	0541	-0.3	-9		10 M	0037	4.1	125		25 Tu	0110	4.8	146		10 Th	0130	4.1	125		25 F	0301	4.7	143					
	1222	4.0	122			1218	4.7	143			1308	4.3	131			0708	0.1	3			0723	1.1	34			0853	0.9	27					
	1814	0.6	18			1807	0.0	0			1918	1.1	34			1357	5.3	162			1406	4.8	146			1548	5.4	165					
																2003	0.6	18			2027	1.5	46			2147	1.0	30					
11 Sa	0038	4.2	128		26 Su	0033	4.8	146		11 Tu	0121	4.0	122		26 W	0211	4.6	140		11 F	0228	4.1	125		26 Sa	0407	4.7	143					
	0650	0.3	9			0635	-0.3	-9			0725	0.6	18			0808	0.2	6			0821	1.1	34			0954	1.0	30					
	1308	3.9	119			1315	4.7	143			1357	4.3	131			1503	5.3	162			1508	4.9	149			1648	5.4	165					
	1909	0.8	24			1912	0.1	3			2014	1.2	37			2106	0.6	18			2124	1.4	43			2242	1.0	30					
12 Su	0122	4.0	122		27 M	0127	4.6	140		12 W	0211	3.8	116		27 Th	0317	4.5	137		12 Sa	0332	4.2	128		27 Su	0506	4.9	149					
	0735	0.3	9			0731	-0.3	-9			0812	0.7	21			0909	0.3	9			0920	1.0	30			1052	0.9	27					
	1357	4.0	122			1416	4.8	146			1452	4.4	134			1608	5.3	162			1610	5.1	155			1741	5.5	168					
	2005	0.8	24			2017	0.2	6			2109	1.1	34			2206	0.7	21			2220	1.2	37			2333	0.9	27					
13 M	0209	3.8	116		28 Tu	0227	4.4	134		13 Th	0307	3.8	116		28 F	0422	4.4	134		13 Su	0434	4.4	134		28 M	0557	5.0	152					
	0820	0.3	9			0828	-0.3	-9			0902	0.6	18			1008	0.4	12			1019	0.8	24			1145	0.9	27					
	1448	4.0	122			1520	4.9	149			1550	4.5	137			1708	5.3	162			1708	5.3	162			1828	5.5	168					
	2059	0.9	27			2120	0.2	6			2203	1.1	34			2303	0.6	18			2313	0.9	27										
14 Tu	0300	3.7	113		29 W	0331	4.2	128		14 F	0407	3.8	116		29 Sa	0522	4.5	137		14 M	0532	4.7	143		29 Tu	0019	0.8	24					
	0904	0.3	9																														

Mayport, Florida, 2020

Times and Heights of High and Low Waters

October				November				December						
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height	
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm
1 Th	0139	0.7	21		16 F	0109	0.0	0		1 Su	0213	0.7	21	
	0805	5.3	162			0746	6.2	189			0850	5.5	168	
	1357	0.8	24			1341	0.0	0			1449	0.9	27	
	2027	5.4	165			2006	6.0	183			2108	4.8	146	
2 F	0214	0.7	21		17 Sa	0156	-0.2	-6		2 M	0244	0.7	21	
	0842	5.4	165			0837	6.4	195			0925	5.4	165	
	1435	0.9	27			1432	-0.1	-3			1523	1.0	30	
	2102	5.2	158			2057	6.0	183			2145	4.7	143	
3 Sa	0246	0.8	24		18 Su	0242	-0.2	-6		3 Tu	0315	0.8	24	
	0918	5.4	165			0929	6.5	198			1002	5.4	165	
	1511	1.0	30			1525	0.0	0			1559	1.1	34	
	2137	5.1	155			2148	5.8	177			2222	4.5	137	
4 Su	0317	0.9	27		19 M	0331	-0.1	-3		4 W	0349	0.9	27	
	0953	5.3	162			1022	6.4	195			1040	5.3	162	
	1547	1.1	34			1619	0.3	9			1638	1.2	37	
	2212	4.9	149			2240	5.5	168			2302	4.4	134	
5 M	0348	1.0	30		20 Tu	0422	0.2	6		5 Th	0429	1.0	30	
	1029	5.3	162			1116	6.2	189			1121	5.2	158	
	1623	1.3	40			1717	0.5	15			1723	1.3	40	
	2248	4.7	143			2335	5.3	162			2346	4.3	131	
6 Tu	0421	1.1	34		21 W	0518	0.5	15		6 F	0517	1.1	34	
	1107	5.2	158			1213	5.9	180			1207	5.1	155	
	1704	1.5	46			1819	0.8	24			1817	1.3	40	
	2326	4.5	137											
7 W	0500	1.2	37		22 Th	0032	5.0	152		7 Sa	0035	4.3	131	
	1148	5.1	155			0621	0.8	24			0614	1.1	34	
	1752	1.6	49			1313	5.7	174			1259	5.0	152	
						1923	1.0	30			1916	1.3	40	
8 Th	0009	4.4	134		23 F	0134	4.8	146		8 Su	0131	4.3	131	
	0547	1.3	40			0728	1.0	30			0719	1.1	34	
	1234	5.1	155			1416	5.4	165			1358	5.0	152	
	1848	1.6	49			2024	1.1	34			2015	1.1	34	
9 F	0059	4.3	131		24 Sa	0240	4.7	143		9 M	0235	4.5	137	
	0643	1.3	40			0834	1.2	37			0827	1.0	30	
	1328	5.0	152			1520	5.3	162			1502	5.1	155	
	1949	1.6	49			2121	1.1	34			2113	0.9	27	
10 Sa	0157	4.3	131		25 Su	0344	4.8	146		10 Tu	0341	4.7	143	
	0746	1.3	40			0935	1.2	37			0933	0.8	24	
	1430	5.1	155			1619	5.2	158			1605	5.2	158	
	2048	1.5	46			2214	1.0	30			2207	0.6	18	
11 Su	0302	4.5	137		26 M	0442	4.9	149		11 W	0443	5.1	155	
	0851	1.2	37			1031	1.2	37			1036	0.5	15	
	1535	5.2	158			1711	5.2	158			1704	5.3	162	
	2145	1.2	37			2303	1.0	30			2301	0.2	6	
12 M	0407	4.7	143		27 Tu	0532	5.0	152		12 Th	0540	5.5	168	
	0955	0.9	27			1123	1.1	34			1135	0.2	6	
	1636	5.5	168			1757	5.2	158			1759	5.5	168	
	2240	0.9	27			2347	0.9	27			2352	-0.1	-3	
13 Tu	0506	5.1	155		28 W	0617	5.2	158		13 F	0634	5.9	180	
	1055	0.7	21			1211	1.0	30			1232	0.0	0	
	1732	5.7	174			1839	5.2	158			1852	5.5	168	
	2331	0.6	18											
14 W	0601	5.5	168		29 Th	0028	0.8	24		14 Sa	0043	-0.3	-9	
	1153	0.4	12			0658	5.3	162			0727	6.2	189	
	1825	5.9	180			1254	0.9	27			1325	-0.2	-6	
						1918	5.1	155			1944	5.5	168	
15 Th	0021	0.3	9		30 F	0106	0.7	21		15 Su	0132	-0.4	-12	
	0654	5.9	180			0737	5.4	165			0819	6.4	195	
	1248	0.1	3			1335	0.9	27			1418	-0.2	-6	
	1916	6.0	183			1955	5.1	155			2036	5.5	168	
					31 Sa	0140	0.7	21						
						0814	5.5	168						
						1413	0.9	27						
						2032	5.0	152						
					31 Th	0232	-0.3	-9						
						0922	4.9	149						
						1519	-0.1	-3						
						2143	4.0	122						

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Port Canaveral (Trident Pier), Florida, 2020

Times and Heights of High and Low Waters

April				May				June																					
Time	Height			Time	Height			Time	Height			Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm										
1 W O	0102	3.5	107		16 Th	0252	3.4	104		1 F	0137	3.7	113		16 Sa	0303	3.1	94		1 M	0311	3.5	107		16 Tu	0345	2.8	85	
	0735	0.6	18			0911	0.5	15			0806	0.3	9			0915	0.3	9			0926	-0.4	-12			0949	0.1	3	
	1324	2.6	79			1524	2.8	85			1409	3.0	91			1544	3.0	91			1555	3.9	119			1630	3.4	104	
	1931	0.2	6			2116	0.4	12			2012	0.1	3			2138	0.6	18			2205	-0.1	-3			2242	0.5	15	
2 Th	0206	3.5	107		17 F	0351	3.4	104		2 Sa	0239	3.7	113		17 Su	0351	3.1	94		2 Tu	0408	3.5	107		17 W	0431	2.7	82	
	0833	0.5	15			1004	0.4	12			0901	0.1	3			0958	0.3	9			1019	-0.6	-18			1032	0.0	0	
	1429	2.8	85			1619	3.0	91			1513	3.3	101			1629	3.2	98			1652	4.2	128			1712	3.6	110	
	2033	0.1	3			2214	0.4	12			2117	0.0	0			2231	0.5	15			2307	-0.2	-6			2331	0.4	12	
3 F	0309	3.7	113		18 Sa	0439	3.3	101		3 Su	0338	3.8	116		18 M	0435	3.0	91		3 W	0503	3.4	104		18 Th	0515	2.7	82	
	0931	0.3	9			1049	0.4	12			0955	-0.2	-6			1039	0.2	6			1111	-0.8	-24			1115	-0.1	-3	
	1533	3.0	91			1705	3.1	94			1613	3.7	113			1710	3.4	104			1746	4.5	137			1754	3.7	113	
	2137	-0.1	-3			2306	0.4	12			2220	-0.2	-6			2320	0.4	12											
4 Sa	0408	3.9	119		19 Su	0521	3.3	101		4 M	0434	3.8	116		19 Tu	0516	3.0	91		4 Th	0005	-0.3	-9		19 F	0015	0.3	9	
	1027	0.0	0			1127	0.3	9			1048	-0.4	-12			1117	0.1	3			1202	-0.8	-24			0600	2.7	82	
	1632	3.4	104			1745	3.3	101			1709	4.1	125			1749	3.6	110			1839	4.6	140			0607	2.0	6	
	2238	-0.3	-9			2351	0.3	9			2321	-0.4	-12								1932	4.7	143			0645	2.7	82	
5 Su	0503	4.0	122		20 M	0600	3.3	101		5 Tu	0528	3.8	116		20 W	0004	0.3	9		5 F	0100	-0.4	-12		20 Sa	0058	0.2	6	
	1119	-0.3	-9			1202	0.1	3			1138	-0.7	-21			0556	2.9	88			0653	3.3	101			0645	2.7	82	
	1728	3.8	116			1823	3.5	107			1803	4.5	137			1155	0.0	0			1252	-0.8	-24			1239	-0.2	-6	
	2337	-0.6	-18								1828	3.7	113			1828	3.7	113			1932	4.7	143			1919	4.0	122	
6 M	0556	4.1	125		21 Tu	0032	0.2	6		6 W	0018	-0.5	-15		21 Th	0045	0.3	9		6 Sa	0152	-0.4	-12		21 Su	0140	0.1	3	
	1208	-0.5	-15			0637	3.3	101			0622	3.8	116			0637	2.9	88			0747	3.2	98			0731	2.7	82	
	1822	4.2	128			1236	0.1	3			1227	-0.8	-24			1232	-0.1	-3			1341	-0.7	-21			1321	-0.3	-9	
						1900	3.7	113			1857	4.7	143			1907	3.9	119			2023	4.6	140			2002	4.1	125	
7 Tu	0033	-0.7	-21		22 W	0110	0.2	6		7 Th	0113	-0.6	-18		22 F	0125	0.2	6		7 Su	0244	-0.3	-9		22 M	0223	0.1	3	
	0648	4.1	125			0714	3.2	98			0714	3.7	113			0718	2.9	88			0839	3.1	94			0817	2.8	85	
	1255	-0.7	-21			1309	0.0	0			1315	-0.9	-27			1309	-0.1	-3			1432	-0.5	-15			1405	-0.3	-9	
	1915	4.5	137			1937	3.8	116			1949	4.8	146			1946	3.9	119			2113	4.4	134			2046	4.1	125	
8 W	0127	-0.8	-24		23 Th	0148	0.2	6		8 F	0206	-0.5	-15		23 Sa	0205	0.2	6		8 M	0336	-0.2	-6		23 Tu	0308	0.0	0	
	0738	4.1	125			0751	3.1	94			0807	3.6	110			0800	2.8	85			0931	3.0	91			0903	2.8	85	
	1342	-0.9	-27			1343	0.0	0			1404	-0.8	-24			1347	-0.1	-3			1523	-0.3	-9			1452	-0.3	-9	
	2008	4.7	143			2014	3.8	116			2041	4.8	146			2026	4.0	122			2202	4.2	128			2131	4.1	125	
9 Th	0220	-0.7	-21		24 F	0227	0.2	6		9 Sa	0300	-0.4	-12		24 Su	0246	0.2	6		9 Tu	0429	0.0	0		24 W	0355	0.0	0	
	0829	3.9	119			0829	3.0	91			0859	3.4	104			0841	2.8	85			1021	2.9	88			0950	2.9	88	
	1430	-0.8	-24			1418	0.0	0			1454	-0.6	-18			1427	-0.1	-3			1617	-0.1	-3			1543	-0.2	-6	
	2100	4.7	143			2051	3.9	119			2132	4.6	140			2107	4.0	122			2249	3.9	119			2217	4.1	125	
10 F	0315	-0.6	-18		25 Sa	0307	0.2	6		10 Su	0355	-0.2	-6		25 M	0330	0.2	6		10 W	0521	0.1	3		25 Th	0445	-0.1	-3	
	0919	3.7	113			0906	2.9	88			0951	3.2	98			0924	2.8	85			1113	2.8	85			1040	3.0	91	
	1519	-0.7	-21			1455	0.1	3			1546	-0.4	-12			1511	0.0	0			1713	0.2	6			1639	-0.2	-6	
	2151	4.6	140			2129	3.9	119			2223	4.4	134			2149	4.0	122			2337	3.6	110			2304	3.9	119	
11 Sa	0412	-0.3	-9		26 Su	0349	0.3	9		11 M	0452	0.0	0		26 Tu	0416	0.2	6		11 Th	0611	0.2	6		26 F	0535	-0.1	-3	
	1010	3.5	107			0945	2.8	85			1043	3.0	91			1008	2.7	82			1206	2.8	85			1134	3.1	94	
	1612	-0.5	-15			1535	0.2	6			1643	-0.1	-3			1559	0.0	0			1809	0.4	12			1738	-0.1	-3	
	2244	4.4	134			2208	3.8	116			2315	4.1	125			2234	3.9	119								2355	3.8	116	
12 Su	0511	-0.1	-3		27 M	0435	0.4	12		12 Tu	0549	0.1	3		27 W	0506	0.2	6		12 F	0026	3.3	101		27 Sa	0626	-0.2	-6	
	1103	3.2	98			1026	2.8	85			1138	2.9	88			1055	2.8	85			0658	0.2	6			1233	3.3	101	
	1708	-0.2	-6			1620	0.2	6			1742	0.2	6			1653	0.1	3			1304	2.8	85			1840	0.0	0	
	2339	4.1	125			2252	3.8	116								2322	3.8	116			1905	0.5	15						
13 M	0612	0.1	3		28 Tu	0525	0.4	12		13 W	0010	3.7	113		28 Th	0558	0.2	6		13 Sa	0117	3.1	94		28 Su	0049	3.6	110	
	1200	3.0	91			1111	2.7	82			0646	0.3	9			1149	2.8	85			0742	0.2	6			0716	-0.3	-9	
	1808	0.1	3			1711	0.3	9			1239	2.8	85			1752	0.1	3			1403	2.8	85			1336	3.5	107	
						2340	3.7	113			1842	0.4	12								2000	0.6	18			1943	0.1	3	
14 Tu	0039	3.8	116		29 W	0617	0.4	12		14 Th	0108	3.5	107		29 F	0015	3.7	113		14 Su	0208	2.9	88						

Port Canaveral (Trident Pier), Florida, 2020

Times and Heights of High and Low Waters

July				August				September																					
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 W	0347	3.1	94		16 Th	0348	2.6	79		1 Sa	0528	3.1	94		16 Su	0455	3.1	94		1 Tu	0055	0.5	15		16 W	0011	0.3	9	
	0955	-0.6	-18			0950	0.1	-3			1129	-0.3	-9			1057	0.1	-3			0654	3.6	110			0614	4.2	128	
	1637	4.2	128			1634	3.6	110			1812	4.3	131			1735	4.2	128			1253	0.3	9			1221	-0.1	-3	
	2254	0.0	0			2254	0.6	18								2357	0.5	15			1923	4.2	128			1844	4.8	146	
2 Th	0444	3.1	94		17 F	0437	2.7	82		2 Su	0033	0.2	6		17 M	0546	3.3	101		2 W	0131	0.5	15		17 Th	0057	0.1	3	
	1049	-0.6	-18			1037	0.0	0			0621	3.1	94			1149	-0.1	-3			0737	3.7	113			0707	4.5	137	
	1732	4.4	134			1719	3.8	116			1220	-0.2	-6			1824	4.4	134			1335	0.3	9			1313	-0.2	-6	
	2353	-0.1	-3			2342	0.4	12			1901	4.3	131								2002	4.2	128			1934	4.8	146	
3 F	0540	3.1	94		18 Sa	0525	2.8	85		3 M	0119	0.2	6		18 Tu	0043	0.3	9		3 Th	0207	0.5	15		18 F	0142	-0.1	-3	
	1142	-0.7	-21			1125	-0.1	-3			0712	3.2	98			0637	3.5	107			0818	3.8	116			0759	4.8	146	
	1825	4.4	134			1805	4.0	122			1308	-0.2	-6			1239	-0.3	-9			1416	0.5	15			1406	-0.2	-6	
											1947	4.2	128			1912	4.6	140			2038	4.0	122			2023	4.7	143	
4 Sa	0047	-0.1	-3		19 Su	0028	0.3	9		4 Tu	0201	0.2	6		19 W	0128	0.1	3		4 F	0241	0.5	15		19 Sa	0229	-0.2	-6	
	0635	3.0	91			0614	2.9	88			0759	3.2	98			0729	3.8	116			0857	3.8	116			0851	5.0	152	
	1234	-0.6	-18			1212	-0.3	-9			1354	-0.1	-3			1329	-0.4	-12			1457	0.6	18			1500	-0.1	-3	
	1916	4.4	134			1852	4.1	125			2030	4.1	125			2000	4.6	140			2114	3.9	119			2112	4.5	137	
5 Su	0137	-0.1	-3		20 M	0113	0.2	6		5 W	0242	0.2	6		20 Th	0213	-0.1	-3		5 Sa	0317	0.6	18		20 Su	0317	-0.1	-3	
	0728	3.0	91			0703	3.0	91			0845	3.3	101			0820	4.0	122			0936	3.8	116			0944	5.0	152	
	1323	-0.5	-15			1259	-0.4	-12			1438	0.1	3			1421	-0.3	-9			1540	0.7	21			1558	0.1	3	
	2006	4.3	131			1938	4.3	131			2110	4.0	122			2048	4.6	140			2150	3.7	113			2202	4.3	131	
6 M	0225	-0.1	-3		21 Tu	0157	0.0	0		6 Th	0322	0.3	9		21 F	0300	-0.2	-6		6 Su	0354	0.6	18		21 M	0409	0.0	0	
	0820	3.0	91			0752	3.1	94			0928	3.3	101			0912	4.2	128			1015	3.8	116			1038	5.0	152	
	1412	-0.4	-12			1347	-0.4	-12			1523	0.3	9			1515	-0.2	-6			1625	0.9	27			1658	0.4	12	
	2053	4.2	128			2025	4.3	131			2148	3.8	116			2135	4.5	137			2227	3.5	107			2254	4.0	122	
7 Tu	0312	0.0	0		22 W	0243	-0.1	-3		7 F	0401	0.3	9		22 Sa	0348	-0.2	-6		7 M	0434	0.7	21		22 Tu	0505	0.1	3	
	0909	3.0	91			0842	3.3	101			1009	3.3	101			1005	4.3	131			1055	3.8	116			1135	4.8	146	
	1501	-0.2	-6			1436	-0.4	-12			1609	0.5	15			1612	-0.1	-3			1713	1.1	34			1802	0.6	18	
	2138	4.0	122			2111	4.3	131			2225	3.6	110			2224	4.2	128			2306	3.3	101			2351	3.7	113	
8 W	0359	0.0	0		23 Th	0329	-0.1	-3		8 Sa	0441	0.4	12		23 Su	0439	-0.2	-6		8 Tu	0516	0.8	24		23 W	0604	0.3	9	
	0956	3.0	91			0932	3.4	104			1052	3.3	101			1059	4.4	134			1139	3.8	116			1237	4.6	140	
	1550	0.0	0			1529	-0.3	-9			1658	0.6	18			1713	0.2	6			1803	1.2	37			1906	0.8	24	
	2220	3.8	116			2157	4.2	128			2304	3.4	104			2314	3.9	119			2349	3.2	98						
9 Th	0444	0.1	3		24 F	0418	-0.2	-6		9 Su	0522	0.4	12		24 M	0532	-0.1	-3		9 W	0602	0.9	27		24 Th	0055	3.5	107	
	1042	2.9	88			1024	3.6	110			1136	3.3	101			1156	4.4	134			1227	3.8	116			0706	0.5	15	
	1641	0.2	6			1626	-0.2	-6			1748	0.8	24			1816	0.4	12			1856	1.2	37			1345	4.5	137	
	2302	3.6	110			2245	4.1	125			2344	3.2	98													2011	0.9	27	
10 F	0529	0.2	6		25 Sa	0508	-0.3	-9		10 M	0604	0.5	15		25 Tu	0009	3.7	113		10 Th	0039	3.1	94		25 F	0206	3.4	104	
	1130	2.9	88			1118	3.7	113			1223	3.3	101			0627	0.0	0			0651	0.9	27			0809	0.6	18	
	1733	0.4	12			1726	0.0	0			1840	0.9	27			1258	4.3	131			1323	3.8	116			1454	4.4	134	
	2344	3.3	101			2335	3.8	116							1920	0.5	15			1950	1.2	37			2114	1.0	30		
11 Sa	0611	0.2	6		26 Su	0559	-0.3	-9		11 Tu	0029	3.0	91		26 W	0110	3.4	104		11 F	0136	3.0	91		26 Sa	0315	3.5	107	
	1219	2.9	88			1216	3.8	116			0647	0.5	15			0724	0.1	3			0743	0.8	24			0912	0.7	21	
	1826	0.6	18			1828	0.1	3			1314	3.4	104			1405	4.3	131			1422	3.9	119			1556	4.3	131	
											1932	1.0	30			2025	0.6	18			2045	1.2	37			2213	0.9	27	
12 Su	0028	3.1	94		27 M	0029	3.6	110		12 W	0119	2.9	88		27 Th	0217	3.3	101		12 Sa	0235	3.1	94		27 Su	0416	3.6	110	
	0653	0.2	6			0651	-0.3	-9			0732	0.5	15			0824	0.2	6			0839	0.7	21			1013	0.7	21	
	1312	3.0	91			1318	3.9	119			1409	3.5	107			1511	4.3	131			1520	4.1	125			1649	4.3	131	
	1919	0.7	21			1932	0.2	6			2026	1.0	30			2130	0.7	21			2141	1.1	34			2304	0.9	27	
13 M	0115	2.9	88		28 Tu	0127	3.3	101		13 Th	0214	2.8	85		28 F	0323	3.2	98		13 Su	0334	3.3	101		28 M	0507	3.7	113	

Port Canaveral (Trident Pier), Florida, 2020

Times and Heights of High and Low Waters

October				November				December						
Time	Height		Time	Height		Time	Height		Time	Height				
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm
1 Th	0057	0.7	21		16 F	0026	-0.1	-3		1 Su	0126	0.5	15	
	0712	4.1	125			0646	5.1	155			0758	4.4	134	
	1316	0.7	21			1258	-0.1	-3			1411	0.8	24	
	1929	4.1	125			1907	4.7	143			2011	3.6	110	
2 F	0129	0.6	18		17 Sa	0113	-0.2	-6		2 M	0201	0.6	18	
	0750	4.2	128			0739	5.3	162			0835	4.4	134	
	1354	0.7	21			1351	-0.1	-3			1450	0.8	24	
	2005	4.0	122			1958	4.5	137			2049	3.5	107	
3 Sa	0202	0.6	18		18 Su	0200	-0.3	-9		3 Tu	0237	0.6	18	
	0827	4.3	131			0831	5.4	165			0913	4.4	134	
	1433	0.8	24			1445	0.0	0			1531	0.9	27	
	2041	3.8	116			2049	4.4	134			2127	3.4	104	
4 Su	0236	0.7	21		19 M	0250	-0.2	-6		4 W	0316	0.7	21	
	0904	4.3	131			0924	5.4	165			0952	4.3	131	
	1513	0.9	27			1542	0.2	6			1616	1.0	30	
	2118	3.7	113			2141	4.1	125			2207	3.3	101	
5 M	0312	0.8	24		20 Tu	0342	0.0	0		5 Th	0359	0.8	24	
	0941	4.2	128			1017	5.2	158			1034	4.2	128	
	1556	1.0	30			1642	0.4	12			1704	1.1	34	
	2155	3.5	107			2235	3.9	119			2250	3.2	98	
6 Tu	0351	0.9	27		21 W	0439	0.3	9		6 F	0448	0.9	27	
	1020	4.2	128			1113	4.9	149			1120	4.1	125	
	1642	1.2	37			1744	0.7	21			1756	1.1	34	
	2234	3.4	104			2332	3.7	113			2340	3.1	94	
7 W	0433	1.0	30		22 Th	0541	0.5	15		7 Sa	0544	0.9	27	
	1102	4.1	125			1213	4.6	140			1212	4.1	125	
	1731	1.3	40			1847	0.8	24			1849	1.0	30	
	2317	3.3	101											
8 Th	0521	1.0	30		23 F	0037	3.5	107		8 Su	0037	3.2	98	
	1149	4.1	125			0645	0.7	21			0643	0.9	27	
	1824	1.3	40			1320	4.4	134			1310	4.1	125	
						1950	0.9	27			1942	0.9	27	
9 F	0006	3.2	98		24 Sa	0149	3.4	104		9 M	0141	3.4	104	
	0614	1.1	34			0750	0.8	24			0745	0.8	24	
	1243	4.0	122			1428	4.2	128			1411	4.1	125	
	1918	1.3	40			2049	1.0	30			2035	0.7	21	
10 Sa	0103	3.2	98		25 Su	0300	3.5	107		10 Tu	0245	3.7	113	
	0711	1.0	30			0854	0.9	27			0848	0.6	18	
	1344	4.1	125			1529	4.1	125			1509	4.1	125	
	2013	1.2	37			2143	0.9	27			2128	0.4	12	
11 Su	0206	3.3	101		26 M	0359	3.6	110		11 W	0345	4.1	125	
	0810	0.9	27			0954	0.9	27			0950	0.4	12	
	1444	4.2	128			1620	4.0	122			1605	4.2	128	
	2107	1.0	30			2230	0.9	27			2219	0.1	3	
12 M	0308	3.6	110		27 Tu	0448	3.8	116		12 Th	0440	4.5	137	
	0910	0.7	21			1048	0.9	27			1051	0.2	6	
	1542	4.4	134			1703	4.0	122			1658	4.3	131	
	2200	0.8	24			2311	0.8	24			2309	-0.1	-3	
13 Tu	0406	3.9	119		28 W	0530	4.0	122		13 F	0534	4.9	149	
	1010	0.5	15			1135	0.9	27			1149	0.0	0	
	1635	4.5	137			1742	3.9	119			1751	4.2	128	
	2251	0.5	15			2346	0.7	21			2359	-0.4	-12	
14 W	0500	4.3	131		29 Th	0608	4.1	125		14 Sa	0627	5.2	158	
	1108	0.2	6			1217	0.8	24			1244	-0.1	-3	
	1726	4.7	143			1819	3.8	116			1843	4.2	128	
	2339	0.2	6											
15 Th	0553	4.7	143		30 F	0020	0.6	18		15 Su	0047	-0.5	-15	
	1204	0.0	0			0645	4.3	131			0720	5.3	162	
	1817	4.7	143			1255	0.8	24			1337	-0.1	-3	
						1856	3.8	116			1936	4.1	125	
					31 Sa	0053	0.5	15						
						0722	4.4	134						
						1333	0.8	24						
						1933	3.7	113						
					16 M	0136	-0.5	-15		16 Tu	0133	0.2	6	
						0813	5.4	165			0810	4.3	131	
						1430	0.0	0			1428	0.5	15	
						2029	4.0	122			2023	3.1	94	
					17 Tu	0226	-0.4	-12		2 W	0211	0.2	6	
						0905	5.2	158			0849	4.2	128	
						1525	0.1	3			1509	0.6	18	
						2122	3.8	116			2103	3.1	94	
					18 W	0319	-0.1	-3		3 Th	0251	0.3	9	
						0957	5.0	152			0930	4.2	128	
						1622	0.3	9			1553	0.6	18	
						2215	3.6	110			2145	3.0	91	
					19 Th	0415	0.1	3		4 F	0335	0.4	12	
						1051	4.7	143			1012	4.1	125	
						1721	0.5	15			1640	0.6	18	
						2311	3.4	104			2229	3.0	91	
					20 F	0516	0.4	12		5 Sa	0425	0.4	12	
						1146	4.4	134			1056	4.0	122	
						1821	0.6	18			1729	0.6	18	
											2319	3.0	91	
					21 Sa	0012	3.3	101		6 Su	0521	0.5	15	
						0619	0.6	18			1146	3.9	119	
						1246	4.0	122			1820	0.5	15	
						1918	0.7	21						
					22 Su	0120	3.2	98		7 M	0015	3.1	94	
						0722	0.8	24			0621	0.5	15	
						1348	3.8	116			1240	3.8	116	
						2012	0.7	21			1912	0.4	12	
					23 M	0229	3.3	101		8 Tu	0118	3.3	101	
						0824	0.9	27			0724	0.5	15	
						1447	3.6	110			1339	3.7	113	
						2101	0.7	21			2004	0.2	6	
					24 Tu	0329	3.4	104		9 W	0223	3.6	110	
						0924	0.9	27			0829	0.4	12	
						1539	3.5	107			1439	3.7	113	
						2146	0.6	18			2057	0.0	0	
					25 W	0418	3.6	110		10 Th	0325	4.0	122	
						1019	0							

Miami, Government Cut, Florida, 2020

Times and Heights of High and Low Waters

January				February				March														
Time	Height			Time	Height			Time	Height			Time	Height									
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm								
1 W	0023	2.0	61		16 Th	0042	2.3	70		1 Su	0039	2.0	61		16 M	0200	2.2	67				
	0619	0.3	9			0629	-0.2	-6			0706	0.3	9			0618	0.3	9		0752	0.3	9
	1246	2.1	64			1304	2.4	73			1325	1.8	55			1241	1.9	58		1411	2.1	64
	1853	0.3	9			1903	-0.3	-9			1934	0.1	3			1841	0.1	3		2020	-0.1	-3
2 Th	0112	1.9	58		17 F	0143	2.3	70		2 Su	0212	1.8	55		2 M	0306	2.1	64				
	0710	0.4	12			0732	0.0	0			0801	0.4	12			0711	0.4	12		0859	0.3	9
	1330	2.0	61			1400	2.2	67			1416	1.7	52			1330	1.8	55		1519	2.0	61
	1944	0.3	9			2005	-0.3	-9			2029	0.1	3			1938	0.1	3		2127	0.0	0
3 F	0206	1.9	58		18 Sa	0248	2.2	67		3 M	0313	1.8	55		3 Tu	0231	1.9	58				
	0805	0.5	15			0837	0.1	3			0902	0.4	12			0814	0.5	15		1004	0.4	12
	1419	1.9	58			1501	2.2	67			1514	1.7	52			1431	1.8	55		1627	2.0	61
	2036	0.3	9			2108	-0.3	-9			2127	0.0	0			2043	0.0	0		2229	0.0	0
4 Sa	0303	1.9	58		19 Su	0355	2.2	67		4 Tu	0417	1.9	58		4 W	0338	1.9	58				
	0901	0.5	15			0941	0.1	3			1002	0.4	12			0923	0.4	12		1102	0.3	9
	1511	1.9	58			1604	2.1	64			1617	1.8	55			1541	1.8	55		1729	2.0	61
	2127	0.2	6			2208	-0.4	-12			2224	-0.1	-3			2149	-0.1	-3		2324	0.0	0
5 Su	0401	2.0	61		20 M	0459	2.2	67		5 W	0518	2.0	61		5 Th	0445	2.0	61				
	0956	0.5	15			1042	0.1	3			1059	0.3	9			1027	0.3	9		1153	0.2	6
	1605	1.9	58			1706	2.1	64			1719	1.9	58			1651	2.0	61		1821	2.1	64
	2216	0.1	3			2305	-0.4	-12			2319	-0.3	-9			2251	-0.2	-6				
6 M	0458	2.1	64		21 Tu	0558	2.3	70		6 Th	0614	2.2	67		6 F	0545	2.2	67				
	1047	0.4	12			1138	0.1	3			1152	0.1	3			1125	0.1	3		0013	0.0	0
	1700	2.0	61			1803	2.1	64			1817	2.0	61			1755	2.2	67		0652	2.2	67
	2304	-0.1	-3			2358	-0.4	-12								2348	-0.4	-12		1237	0.1	3
7 Tu	0551	2.2	67		22 W	0651	2.3	70		7 F	0705	2.3	70		7 Sa	0639	2.4	73				
	1135	0.3	9			1230	0.0	0			1242	-0.1	-3			1218	-0.1	-3		0056	0.0	0
	1752	2.0	61			1855	2.2	67			1911	2.2	67			1852	2.4	73		0730	2.3	70
	2350	-0.2	-6															1317	0.0	0		
8 W	0641	2.3	70		23 Th	0048	-0.4	-12		8 Sa	0101	-0.6	-18		8 Su	0699	2.4	73				
	1221	0.2	6			0738	2.4	73			0753	2.5	76			0728	2.6	79		0805	2.3	70
	1842	2.1	64			1317	0.0	0			1331	-0.2	-6			1309	-0.3	-9		1353	0.0	0
						1943	2.2	67			2003	2.4	73			1946	2.6	79		2023	2.4	73
9 Th	0035	-0.4	-12		24 F	0134	-0.4	-12		9 Su	0151	-0.7	-21		9 M	0133	-0.6	-18				
	0729	2.4	73			0821	2.4	73			0840	2.6	79			0815	2.7	82		0212	-0.1	-3
	1306	0.1	3			1402	0.0	0			1419	-0.4	-12			1358	-0.5	-15		0839	2.3	70
	1931	2.2	67			2027	2.2	67			2053	2.5	76			2037	2.8	85		1428	-0.1	-3
10 F	0121	-0.5	-15		25 Sa	0217	-0.4	-12		10 M	0240	-0.7	-21		10 Tu	0223	-0.7	-21				
	0816	2.5	76			0901	2.4	73			0926	2.7	82			0902	2.8	85		0912	2.3	70
	1352	0.0	0			1444	-0.1	-3			1508	-0.5	-15			1447	-0.7	-21		1501	-0.1	-3
	2020	2.3	70			2108	2.2	67			2144	2.6	79			2127	2.9	88		2135	2.4	73
11 Sa	0207	-0.6	-18		26 Su	0258	-0.4	-12		11 Tu	0329	-0.7	-21		11 W	0312	-0.6	-18				
	0901	2.6	79			0938	2.3	70			1012	2.7	82			0948	2.8	85		0945	2.3	70
	1438	-0.1	-3			1524	-0.1	-3			1557	-0.6	-18			1606	-0.1	-3		1532	-0.1	-3
	2109	2.4	73			2147	2.2	67			2235	2.6	79			2217	2.8	85		2211	2.4	73
12 Su	0255	-0.6	-18		27 M	0338	-0.3	-9		12 W	0420	-0.6	-18		12 Th	0402	-0.5	-15				
	0947	2.6	79			1014	2.2	67			1058	2.6	79			1034	2.7	82		1019	2.2	67
	1526	-0.2	-6			1603	-0.1	-3			1648	-0.6	-18			1626	-0.7	-21		1605	-0.1	-3
	2158	2.4	73			2226	2.1	64			2328	2.5	76			2309	2.8	85		2248	2.3	70
13 M	0344	-0.6	-18		28 Tu	0417	-0.2	-6		13 Th	0513	-0.4	-12		13 F	0454	-0.3	-9				
	1034	2.6	79			1050	2.2	67			1147	2.5	76			1123	2.6	79		1053	2.1	64
	1615	-0.3	-9			1642	0.0	0			1742	-0.6	-18			1718	-0.6	-18		1639	0.0	0
	2250	2.4	73			2306	2.0	61										2327	2.2	67		
14 Tu	0435	-0.5	-15		29 W	0455	0.0	0		14 F	0023	2.4	73		14 Sa	0002	2.6	79				
	1121	2.6	79			1125	2.1	64			0609	-0.2	-6			0548	-0.1	-3		0503	0.3	9
	1708	-0.3	-9			1720	0.0	0			1238	2.3	70			1214	2.4	73		1129	2.1	64
	2344	2.4	73			2346	2.0	61			1839	-0.5	-15			1814	-0.4	-12		1718	0.0	0
15 W	0530	-0.3	-9		30 Th	0535	0.1	3		15 Sa	0121	2.3	70		15 Su	0058	2.4	73				
	1211	2.5	76			1202	2.0	61			0710	0.0	0			0647	0.1	3		0010	2.2	67
	1804	-0.3	-9			1801	0.0	0			1334	2.2	67			1309	2.2	67		0546	0.4	12
											1940	-0.4	-12			1915	-0.2	-6		1210	2.0	61
				31 F	0030	1.9	58											1805	0.1	3		
					0617	0.2	6															
					1241	1.9	58															
					1844	0.1	3															

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Miami, Government Cut, Florida, 2020

Times and Heights of High and Low Waters

July				August				September						
Day	Time		Height		Day	Time		Height		Day	Time		Height	
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm
1 W	0446	2.3	70		1 Sa	0000	0.3	9		1 Tu	0120	0.4	12	
	1047	-0.4	-12			0627	2.4	73			0749	2.7	82	
	1739	2.5	76			1221	-0.2	-6			1338	0.2	6	
	2320	0.1	3			1913	2.6	79			2017	2.8	85	
2 Th	0545	2.4	73		2 Su	0051	0.2	6		2 W	0201	0.4	12	
	1142	-0.5	-15			0720	2.5	76			0830	2.8	85	
	1835	2.6	79			1310	-0.2	-6			1418	0.2	6	
						2000	2.7	82			2053	2.8	85	
3 F	0014	0.0	0		3 M	0139	0.2	6		3 Th	0239	0.3	9	
	0641	2.4	73			0807	2.5	76			0909	2.8	85	
	1234	-0.5	-15			1357	-0.2	-6			1457	0.3	9	
	1928	2.7	82			2043	2.7	82			2128	2.8	85	
4 Sa	0106	0.0	0		4 Tu	0225	0.2	6		4 F	0316	0.3	9	
	0734	2.4	73			0852	2.5	76			0946	2.7	82	
	1325	-0.5	-15			1441	-0.1	-3			1534	0.4	12	
	2018	2.7	82			2123	2.6	79			2202	2.7	82	
5 Su	0156	0.0	0		5 W	0308	0.2	6		5 Sa	0352	0.4	12	
	0824	2.5	76			0934	2.5	76			1024	2.7	82	
	1414	-0.5	-15			1524	0.0	0			1610	0.5	15	
	2104	2.6	79			2201	2.6	79			2236	2.6	79	
6 M	0245	0.0	0		6 Th	0349	0.2	6		6 Su	0427	0.4	12	
	0911	2.4	73			1015	2.5	76			1102	2.6	79	
	1502	-0.4	-12			1605	0.1	3			1647	0.6	18	
	2149	2.6	79			2238	2.5	76			2311	2.5	76	
7 Tu	0332	0.0	0		7 F	0430	0.2	6		7 Sa	0419	-0.2	-6	
	0957	2.4	73			1055	2.4	73			1101	3.0	91	
	1549	-0.2	-6			1646	0.2	6			1644	0.0	0	
	2231	2.5	76			2314	2.4	73			2320	2.9	88	
8 W	0419	0.1	3		8 Sa	0510	0.3	9		8 Su	0511	-0.1	-3	
	1042	2.3	70			1136	2.3	70			1155	2.9	88	
	1635	-0.1	-3			1727	0.4	12			1739	0.2	6	
	2313	2.4	73			2351	2.3	70						
9 Th	0506	0.1	3		9 Su	0551	0.3	9		9 M	0010	2.8	85	
	1127	2.2	67			1219	2.3	70			0607	-0.1	-3	
	1721	0.1	3			1810	0.5	15			1252	2.8	85	
	2353	2.3	70								1838	0.4	12	
10 F	0552	0.2	6		10 M	0030	2.2	67		10 Tu	0104	2.7	82	
	1212	2.1	64			0634	0.4	12			0707	0.0	0	
	1808	0.2	6			1305	2.2	67			1353	2.7	82	
						1856	0.6	18			1942	0.5	15	
11 Sa	0034	2.2	67		11 Tu	0112	2.2	67		11 W	0204	2.6	79	
	0640	0.2	6			0722	0.4	12			0811	0.1	3	
	1259	2.0	61			1356	2.2	67			1458	2.6	79	
	1858	0.4	12			1949	0.7	21			2048	0.6	18	
12 Su	0116	2.1	64		12 W	0200	2.1	64		12 Th	0309	2.5	76	
	0729	0.3	9			0815	0.4	12			0916	0.2	6	
	1349	2.0	61			1453	2.1	64			1605	2.6	79	
	1949	0.5	15			2046	0.8	24			2152	0.6	18	
13 M	0200	2.0	61		13 Th	0255	2.1	64		13 F	0415	2.5	76	
	0818	0.3	9			0910	0.4	12			1018	0.2	6	
	1442	2.0	61			1553	2.2	67			1709	2.6	79	
	2042	0.5	15			2144	0.8	24			2252	0.6	18	
14 Tu	0249	2.0	61		14 F	0355	2.1	64		14 Sa	0519	2.5	76	
	0908	0.2	6			1006	0.3	9			1116	0.2	6	
	1538	2.0	61			1654	2.3	70			1805	2.7	82	
	2135	0.6	18			2239	0.7	21			2347	0.5	15	
15 W	0341	2.0	61		15 Sa	0456	2.2	67		15 Su	0615	2.6	79	
	0957	0.2	6			1059	0.2	6			1208	0.2	6	
	1635	2.1	64			1750	2.4	73			1854	2.7	82	
	2227	0.5	15			2331	0.6	18						
				31 F	0530	2.4	73		31 M	0035	0.5	15		
					1128	-0.2	-6			0705	2.7	82		
					1821	2.6	79			1255	0.2	6		
										1938	2.8	85		

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Vaca Key, Florida Bay, Florida, 2020

Times and Heights of High and Low Waters

January				February				March			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m ft	m cm	h m ft	m cm	h m ft	m cm	h m ft	m cm	h m ft	m cm	h m ft	m cm
1 W	0441 0.7 21 1040 0.0 0 1749 0.6 18 2305 0.3 9	16 Th	0503 0.6 18 1041 0.0 0 1800 0.5 15 2314 0.0 0	1 Sa	0610 0.2 6 1125 0.0 0 1817 0.5 15	16 Su	0004 -0.4 -12 1825 0.6 18	1 Su	0559 0.1 3 1039 0.0 0 1737 0.5 15 2347 -0.5 -15	16 M	1753 0.7 21
2 Th	0533 0.6 18 1126 0.0 0 1822 0.6 18	17 F	0600 0.5 15 1126 0.1 3 1828 0.6 18	2 Su	0029 -0.3 -9 1013 0.1 3 1207 0.1 3 1858 0.5 15	17 M	0112 -0.4 -12 1911 0.6 18	2 M	1817 0.5 15	17 Tu	0041 -0.5 -15 1843 0.6 18
3 F	0014 0.2 6 0630 0.5 15 1213 0.1 3 1900 0.7 21	18 Sa	0025 -0.1 -3 0934 0.3 6 1211 0.2 6 1904 0.7 21	3 M	0129 -0.3 -9 1940 0.6 18	18 Tu	0220 -0.4 -12 2002 0.6 18	3 Tu	0044 -0.5 -15 1900 0.5 15	18 W	0145 -0.4 -12 1938 0.5 15
4 Sa	0123 0.1 3 1023 0.4 12 1301 0.2 6 1942 0.7 21	19 Su	0137 -0.2 -6 1111 0.3 9 1258 0.2 6 1945 0.7 21	4 Tu	0228 -0.4 -12 2023 0.6 18	19 W	0323 -0.4 -12 2058 0.6 18	4 W	0145 -0.5 -15 1946 0.6 18	19 Th	0250 -0.4 -12 2040 0.5 15
5 Su	0226 0.0 0 1147 0.4 12 1349 0.3 9 2024 0.7 21	20 M	0246 -0.3 -9 2030 0.7 21	5 W	0323 -0.4 -12 2108 0.6 18	20 Th	0416 -0.4 -12 2159 0.5 15	5 Th	0247 -0.5 -15 2037 0.6 18	20 F	0347 -0.3 -9 1303 0.3 9 1529 0.2 6 2155 0.5 15
6 M	0317 -0.1 -3 2105 0.8 24	21 Tu	0346 -0.3 -9 2119 0.8 24	6 Th	0414 -0.5 -15 2156 0.7 21	21 F	0500 -0.4 -12 1419 0.3 9 1624 0.2 6 2309 0.5 15	6 F	0345 -0.4 -12 2139 0.6 18	21 Sa	0433 -0.2 -6 1338 0.4 12 1628 0.2 6
7 Tu	0402 -0.2 -6 2146 0.8 24	22 W	0437 -0.4 -12 2211 0.7 21	7 F	0502 -0.4 -12 1458 0.4 12 1619 0.3 9 2257 0.7 21	22 Sa	0538 -0.3 -9 1453 0.3 9 1716 0.2 6	7 Sa	0437 -0.3 -9 1417 0.3 9 1607 0.3 9 2257 0.7 21	22 Su	0037 0.5 15 0511 -0.1 -3 1409 0.4 12 1715 0.1 3
8 W	0443 -0.3 -9 2227 0.8 24	23 Th	0520 -0.4 -12 1450 0.4 12 1631 0.3 9 2309 0.7 21	8 Sa	0548 -0.4 -12 1531 0.4 12 1711 0.3 9	23 Su	0024 0.5 15 0615 -0.3 -9 1524 0.3 9 1804 0.1 3	8 Su	0524 -0.2 -6 1444 0.4 12 1703 0.2 6	23 M	0135 0.5 15 0546 0.0 0 1434 0.4 12 1757 0.1 3
9 Th	0525 -0.3 -9 2056 0.9 27	24 F	0600 -0.4 -12 1529 0.4 12 1721 0.3 9	9 Su	0011 0.7 21 0633 -0.4 -12 1559 0.4 12 1805 0.2 6	24 M	0126 0.5 15 0652 -0.2 -6 1547 0.3 9 1851 0.1 3	9 M	0026 0.7 21 0608 -0.1 -3 1507 0.4 12 1758 0.1 3	24 Tu	0222 0.5 15 0621 0.0 0 1442 0.5 15 1838 0.0 0
10 F	0609 -0.3 -9 2133 0.9 27	25 Sa	0010 0.7 21 0640 -0.3 -9 1605 0.4 12 1811 0.3 9	10 M	0122 0.8 24 0717 -0.3 -9 1622 0.4 12 1859 0.2 6	25 Tu	0214 0.5 15 0730 -0.2 -6 1547 0.4 12 1937 0.0 0	10 Tu	0150 0.7 21 0649 0.0 0 1521 0.4 12 1852 0.0 0	25 W	0302 0.5 15 0656 0.1 3 1414 0.5 15 1919 -0.1 -3
11 Sa	0653 -0.3 -9 1640 0.5 15 1815 0.5 15	26 Su	0110 0.7 21 0719 -0.3 -9 1636 0.4 12 1901 0.2 6	11 Tu	0226 0.7 21 0800 -0.2 -6 1635 0.4 12 1956 0.0 0	26 W	0257 0.5 15 0808 -0.1 -3 1527 0.4 12 2024 -0.1 -3	11 W	0257 0.7 21 0729 0.0 0 1518 0.5 15 1947 -0.2 -6	26 Th	0335 0.5 15 0731 0.1 3 1434 0.6 18 2002 -0.2 -6
12 Su	0118 0.9 27 0738 -0.3 -9 1712 0.5 15 1907 0.4 12	27 M	0204 0.7 21 0759 -0.3 -9 1658 0.4 12 1951 0.2 6	12 W	0323 0.7 21 0843 -0.1 -3 1632 0.4 12 2055 -0.1 -3	27 Th	0339 0.4 12 0846 -0.1 -3 1549 0.5 15 2112 -0.2 -6	12 Th	0356 0.6 18 0809 0.1 3 1527 0.6 18 2043 -0.3 -9	27 F	0401 0.4 12 0808 0.1 3 1506 0.6 18 2046 -0.3 -9
13 M	0218 0.9 27 0824 -0.3 -9 1738 0.5 15 2003 0.3 9	28 Tu	0254 0.6 18 0840 -0.2 -6 1643 0.4 12 2044 0.1 3	13 Th	0417 0.5 15 0924 -0.1 -3 1643 0.5 15 2155 -0.2 -6	28 F	0422 0.3 9 0924 -0.1 -3 1622 0.5 15 2201 -0.3 -9	13 F	0455 0.4 12 0848 0.1 3 1553 0.6 18 2140 -0.4 -12	28 Sa	0434 0.4 12 0845 0.1 3 1542 0.6 18 2132 -0.4 -12
14 Tu	0315 0.9 27 0910 -0.2 -6 1753 0.5 15 2103 0.2 6	29 W	0341 0.5 15 0921 -0.2 -6 1636 0.4 12 2137 0.0 0	14 F	0511 0.4 12 1005 0.0 0 1709 0.6 18 2259 -0.3 -9	29 Sa	0508 0.2 6 1002 0.0 0 1658 0.5 15 2252 -0.4 -12	14 Sa	0615 0.3 9 0927 0.1 3 1628 0.7 21 2238 -0.5 -15	29 Su	0515 0.3 9 0921 0.1 3 1620 0.6 18 2220 -0.5 -15
15 W	0409 0.8 24 0956 -0.1 -3 1748 0.5 15 2207 0.1 3	30 Th	0428 0.5 15 1003 -0.1 -3 1704 0.5 15 2233 -0.1 -3	15 Sa	0613 0.2 6 1046 0.0 0 1744 0.6 18			15 Su	0800 0.2 6 1007 0.1 3 1708 0.7 21 2338 -0.5 -15	30 M	0759 0.2 6 0956 0.2 6 1658 0.6 18 2313 -0.5 -15
		31 F	0517 0.3 9 1044 -0.1 -3 1739 0.5 15 2330 -0.2 -6							31 Tu	1739 0.6 18

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Vaca Key, Florida Bay, Florida, 2020

Times and Heights of High and Low Waters

April				May				June																																				
Time	Height			Time	Height			Time	Height			Time	Height																															
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm																									
1 W	0009	-0.5	-15	18	16 Th	0108	-0.3	-9	18	1 F	0039	-0.2	-6	21	16 Sa	0126	0.0	0	0	1 M	0158	0.3	9	18	16 Tu	0223	0.3	9	18	16 Tu	0851	0.7	21	3	16 Tu	1605	0.1	3	3					
2 Th	0110	-0.4	-12	18	17 F	0210	-0.2	-6	12	2 Sa	0139	-0.1	-3	21	17 Su	0222	0.1	3	18	2 Tu	0248	0.4	12	21	17 W	0039	0.5	15	12	17 W	0307	0.4	12	12	17 W	0931	0.8	24	24	17 W	1630	0.0	0	0
3 F	0212	-0.3	-9	21	18 Sa	0308	-0.1	-3	15	3 Su	0238	0.1	3	18	18 M	0312	0.2	6	18	3 W	0100	0.7	21	27	18 Th	0136	0.6	18	15	18 Th	0347	0.5	15	15	18 Th	1012	0.9	27	27	18 Th	1700	-0.1	-3	-3
4 Sa	0313	-0.2	-6	12	19 Su	0356	0.1	3	15	4 M	0330	0.2	6	18	19 Tu	0047	0.6	18	9	4 Th	0201	0.7	21	15	19 F	1053	0.9	27	-3	19 F	1735	-0.1	-3	-3	19 F	1735	-0.1	-3	-3					
5 Su	0407	-0.1	-3	15	20 M	0449	0.5	15	6	5 Tu	0050	0.7	21	9	20 W	0142	0.6	18	12	5 F	0257	0.7	21	18	20 Sa	1136	0.9	27	-6	20 Sa	1812	-0.2	-6	-6	20 Sa	1812	-0.2	-6	-6					
6 M	0453	0.1	3	15	21 Tu	0144	0.6	18	6	6 W	0156	0.7	21	12	21 Th	0234	0.6	18	15	6 Sa	0348	0.6	18	15	21 Su	0946	1.0	30	-6	21 Su	1853	-0.2	-6	-6	21 Su	1853	-0.2	-6	-6					
7 Tu	0133	0.7	21	6	22 W	0234	0.6	18	9	7 Th	0254	0.7	21	15	22 F	0322	0.6	18	15	7 Su	0437	0.6	18	15	22 M	1021	1.0	30	-9	22 M	1937	-0.3	-9	-9	22 M	1937	-0.3	-9	-9					
8 W	0239	0.7	21	9	23 Th	0320	0.6	18	9	8 F	0349	0.7	21	15	23 Sa	0409	0.6	18	15	8 M	1411	-1.0	30	-9	23 Tu	1107	1.0	30	-6	23 Tu	2022	-0.2	-6	-6	23 Tu	2022	-0.2	-6	-6					
9 Th	0337	0.7	21	9	24 F	0404	0.6	18	12	9 Sa	0443	0.6	18	15	24 Su	0456	0.6	18	15	9 Tu	0608	0.5	15	12	24 W	1204	1.0	30	27	24 W	1252	0.9	27	30	24 W	1458	1.0	30	30					
10 F	0434	0.6	18	9	25 Sa	0448	0.5	15	12	10 Su	0537	0.5	15	12	25 M	1430	0.9	27	-12	10 W	0652	0.5	15	12	25 Th	0638	0.6	18	15	25 Th	0844	0.5	15	15	25 Th	1550	1.0	30	30	25 Th	2158	-0.1	-3	-3
11 Sa	0533	0.5	15	15	26 Su	0536	0.5	15	15	11 M	1524	1.0	30	-12	26 Tu	1515	0.9	27	-12	11 Th	0734	0.5	15	12	26 F	0704	0.6	18	18	26 F	0945	0.5	15	15	26 F	1642	0.9	27	27	26 F	2247	0.0	0	0
12 Su	0639	0.4	12	9	27 M	0638	0.4	12	9	12 Tu	1612	0.9	27	-9	27 W	1601	0.9	27	-9	12 F	0814	0.5	15	12	27 Sa	0702	0.6	18	18	27 Sa	1053	0.4	12	12	27 Sa	1738	0.8	24	24	27 Sa	2336	0.1	3	3
13 M	1638	0.8	24	-12	28 Tu	1625	0.8	24	-12	13 W	1702	0.8	24	-6	28 Th	1650	0.9	27	-6	13 Sa	0850	0.5	15	9	28 Su	0707	0.7	21	21	28 Su	1205	0.3	9	9	28 Su	1841	0.7	21	21					
14 Tu	1726	0.7	21	-12	29 W	1708	0.8	24	-12	14 Th	1755	0.7	21	-12	29 F	1744	0.8	24	-12	14 Su	0041	0.1	3	3	29 M	0026	0.3	9	9	29 M	0734	0.7	21	21	29 M	1319	0.2	6	6	29 M	2230	0.5	15	15
15 W	0007	-0.4	-12	21	30 Th	1757	0.8	24	-12	15 F	0029	-0.1	-3	15	30 Sa	0009	-0.1	-3	15	15 M	0134	0.2	6	6	30 Tu	0115	0.4	12	12	30 Tu	0807	0.8	24	24	30 Tu	1430	0.1	3	3	30 Tu	2356	0.6	18	18
					31 Su	0077	0.5	15	15	31 Su	1007	0.5	15	15	31 Su	0104	0.1	3	18																									

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Vaca Key, Florida Bay, Florida, 2020

Times and Heights of High and Low Waters

October				November				December															
Time		Height		Time		Height		Time		Height		Time		Height									
h	m	ft	cm	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm								
1 Th O	0206	1.1	34	16 F	0124	1.2	37	1 Su	0034	1.3	40	16 M	0022	1.4	43	1 Tu	0032	1.2	37	16 W	0046	1.2	37
	0542	0.7	21		0529	0.7	21		0642	0.4	12		0656	0.1	3		0657	0.0	0		0727	-0.2	-6
	1415	1.3	40		1422	1.4	43		1556	1.2	37		1626	1.1	34		1642	0.9	27		1704	0.7	21
	1801	0.8	24		1749	1.0	30		1833	1.0	30		1827	1.0	30		1832	0.8	24		1843	0.6	18
2 F	0212	1.2	37	17 Sa	0108	1.3	40	2 M	0114	1.3	40	17 Tu	0113	1.5	46	2 W	0119	1.2	37	17 Th	0146	1.2	37
	0622	0.7	21		0619	0.5	15		0720	0.3	9		0745	0.1	3		0738	0.0	0		0813	-0.1	-3
	1501	1.2	37		1521	1.4	43		1642	1.1	34		1719	1.0	30		1727	0.9	27		1745	0.7	21
	1836	0.9	27		1827	1.0	30		1908	1.0	30		1908	0.9	27		1911	0.8	24		1935	0.6	18
3 Sa	0136	1.2	37	18 Su	0125	1.4	43	3 Tu	0155	1.4	43	18 W	0207	1.5	46	3 Th	0206	1.2	37	18 F	0242	1.1	34
	0701	0.6	18		0710	0.4	12		0800	0.2	6		0834	0.1	3		0821	-0.1	-3		0859	-0.1	-3
	1542	1.2	37		1618	1.3	40		1729	1.1	34		1827	1.0	30		1911	0.8	24		1824	0.6	18
	1911	0.9	27		1904	1.1	34		1945	1.0	30		1945	1.0	30		2350	1.1	34		2032	0.5	15
4 Su	0202	1.3	40	19 M	0159	1.5	46	4 W	0238	1.4	43	19 Th	0259	1.4	43	4 F	0907	-0.1	-3	19 Sa	0334	1.0	30
	0742	0.5	15		0801	0.3	9		0844	0.1	3		0924	0.1	3		0947	-0.1	-3		0947	-0.1	-3
	1618	1.1	34		1717	1.2	37		1824	1.0	30		1824	1.0	30		2021	0.8	24		1859	0.6	18
	1947	0.9	27		1943	1.0	30		2022	0.9	27		2022	0.9	27		2240	0.7	21		2134	0.5	15
5 M	0237	1.3	40	20 Tu	0240	1.5	46	5 Th	0321	1.3	40	20 F	0350	1.3	40	5 Sa	0043	1.1	34	20 Su	0425	0.9	27
	0825	0.4	12		0853	0.2	6		0930	0.1	3		1015	0.1	3		0141	1.0	30		1035	0.0	0
	1648	1.1	34		1821	1.1	34		1821	1.1	34		1015	0.1	3		0341	1.1	34		1930	0.6	18
	2024	0.9	27		2023	1.0	30		2023	1.0	30		2023	1.0	30		0955	0.0	0		2244	0.4	12
6 Tu	0316	1.3	40	21 W	0325	1.5	46	6 F	0404	1.3	40	21 Sa	0442	1.2	37	6 Su	0431	1.1	34	21 M	0517	0.8	24
	0910	0.3	9		0946	0.2	6		1019	0.1	3		1107	0.2	6		1045	0.1	3		1124	0.1	3
	1720	1.0	30		1720	1.0	30		2256	0.7	21		2047	0.8	24		2021	0.8	24		1831	0.7	21
	2101	0.9	27		2101	0.9	27		2101	0.9	27		2256	0.7	21		2240	0.7	21		2240	0.7	21
7 W	0356	1.3	40	22 Th	0413	1.5	46	7 Sa	0450	1.3	40	22 Su	0536	1.1	34	7 M	0524	1.0	30	22 Tu	0002	0.4	12
	0957	0.2	6		1041	0.2	6		1112	0.2	6		1202	0.3	9		1138	0.2	6		0613	0.6	18
													2132	0.9	27		2054	0.8	24		1214	0.2	6
													2132	0.9	27		2352	0.6	18		1900	0.7	21
8 Th	0438	1.3	40	23 F	0503	1.4	43	8 Su	0540	1.3	40	23 M	0022	0.7	21	8 Tu	0623	0.9	27	23 W	0131	0.3	9
	1047	0.2	6		1139	0.3	9		1209	0.3	9		0635	1.0	30		1231	0.3	9		0943	0.5	15
													1258	0.4	12		2025	0.8	24		1306	0.3	9
													2212	0.9	27						1938	0.8	24
9 F	0521	1.3	40	24 Sa	0558	1.3	40	9 M	0638	1.2	37	24 Tu	0208	0.7	21	9 W	0106	0.5	15	24 Th	0307	0.2	6
	1142	0.2	6		1239	0.4	12		1308	0.4	12		0746	0.9	27		0735	0.8	24		1117	0.5	15
					2229	1.0	30		2257	1.0	30		1355	0.5	15		1325	0.5	15		1357	0.4	12
													2247	1.0	30		2038	0.9	27		2020	0.8	24
10 Sa	0609	1.3	40	25 Su	0028	0.9	27	10 Tu	0121	0.9	27	25 W	0356	0.6	18	10 Th	0216	0.4	12	25 F	0357	0.1	3
	1242	0.3	9		0658	1.2	37		0747	1.2	37		1125	0.9	27		1125	0.8	24		1225	0.6	18
					1342	0.5	15		1407	0.6	18		1448	0.6	18		1416	0.6	18		1444	0.5	15
					2310	1.0	30		2325	1.1	34		2312	1.0	30		2105	1.0	30		2102	0.8	24
11 Su	0703	1.3	40	26 M	0202	0.9	27	11 W	0232	0.8	24	26 Th	0433	0.5	15	11 F	0320	0.3	9	26 Sa	0423	0.0	0
	1344	0.4	12		0808	1.1	34		0915	1.1	34		1231	0.9	27		1242	0.8	24		1323	0.6	18
					1442	0.6	18		1501	0.7	21		1533	0.7	21		1503	0.7	21		1527	0.5	15
					2346	1.1	34		2345	1.1	34		2155	1.1	34		2135	1.1	34		2144	0.9	27
12 M	0805	1.3	40	27 Tu	0328	0.8	24	12 Th	0334	0.7	21	27 F	0453	0.4	12	12 Sa	0416	0.1	3	27 Su	0451	-0.1	-3
	1446	0.5	15		1127	1.1	34		1230	1.2	37		1328	1.0	30		1344	0.9	27		2227	0.9	27
					1533	0.7	21		1548	0.9	27		1612	0.8	24		1547	0.7	21				
									2315	1.2	37		2229	1.1	34		2207	1.1	34				
13 Tu	0028	1.1	34	28 W	0019	1.1	34	13 F	0428	0.5	15	28 Sa	0517	0.3	9	13 Su	0506	0.0	0	28 M	0522	-0.1	-3
	0244	1.0	30		0424	0.8	24		1337	1.2	37		1420	1.0	30		2248	1.2	37		2311	0.9	27
	0919	1.3	40		1234	1.2	37		1630	1.0	30		1647	0.8	24								
	1541	0.7	21		1615	0.8	24		2314	1.3	40		2307	1.2	37								
14 W	0055	1.1	34	29 Th	0046	1.2	37	14 Sa	0519	0.4	12	29 Su	0547	0.2	6	14 M	0554	-0.1	-3	29 Tu	0557	-0.2	-6
	0344	0.9	27		0501	0.7	21		1436	1.2	37		1509	1.0	30		1532	0.8	24				
	1101	1.3	40		1330	1.2	37		1709	1.0	30		1721	0.8	24		1711	0.7	21				
	1628	0.8	24		1652	0.9	27		2341	1.4	43		2348	1.2	37		2343	1.2	37				
15 Th	0117	1.2	37	30 F	0051	1.2	37	15 Su	0608	0.2	6	30 M	0620	0.1	3	15 Tu	0641	-0.1	-3	30 W	0000	0.9	27
	0438	0.8	24		0534	0.6	18		1532	1.2	37		1556	0.9	27		1620	0.8	24		0636	-0.2	-6
	1316	1.4	43		1422	1.2	37		1748	1.0	30		1755	0.8	24		1756	0.7	21		2156	0.9	27
	1710	0.9	27		1726	0.9	27																
			31 Sa	0002	1.3	40																	
				0607	0.5	15																	
				1510	1.2	37																	
				1759	1.0	30																	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Key West, Florida, 2020

Times and Heights of High and Low Waters

Table with 4 columns for months (April, May, June) and 4 columns for Time and Height. Each column contains two sub-columns for Time and Height, each with four units (h, m, ft, cm). Rows correspond to days of the month from 1 to 31.

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Key West, Florida, 2020

Times and Heights of High and Low Waters

July				August				September															
Time		Height		Time		Height		Time		Height		Time		Height									
h	m	ft	cm	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm				
1 W	0604	1.9	58	16 Th	0555	1.6	49	1 Sa	0033	0.5	15	16 Su	0014	0.7	21	1 Tu	0215	0.6	18	16 W	0149	0.6	18
	1254	-0.3	-9		1306	0.0	0		0739	2.1	64		0708	2.0	61		0907	2.2	67		0839	2.4	73
	1946	1.0	30		1948	1.0	30		1435	-0.2	-6		1409	0.0	0		1530	0.2	6		1454	0.2	6
2 Th	0002	0.4	12	17 F	0642	1.7	52	2 Su	0127	0.5	15	17 M	0106	0.6	18	2 W	0300	0.5	15	17 Th	0241	0.4	12
	0655	2.0	61		1351	-0.1	-3		0829	2.1	64		0800	2.2	67		0944	2.1	64		0930	2.4	73
	1351	-0.4	-12		2037	1.0	30		1519	-0.2	-6		1449	-0.1	-3		1601	0.3	9		1530	0.3	9
3 F	0051	0.4	12	18 Sa	0041	0.6	18	3 M	0218	0.4	12	18 Tu	0157	0.5	15	3 Th	0343	0.5	15	18 F	0334	0.2	6
	0745	2.1	64		0729	1.8	55		0915	2.1	64		0850	2.3	70		1020	2.1	64		1021	2.3	70
	1443	-0.5	-15		2120	1.0	30		1559	-0.2	-6		1528	-0.1	-3		1630	0.4	12		1606	0.4	12
4 Sa	0139	0.4	12	19 Su	0125	0.5	15	4 Tu	0306	0.4	12	19 W	0248	0.4	12	4 F	0425	0.5	15	19 Sa	0427	0.1	3
	0834	2.1	64		0815	2.0	61		0957	2.1	64		0939	2.3	70		1056	2.0	61		1113	2.2	67
	1531	-0.5	-15		1514	-0.3	-9		1635	-0.1	-3		1606	-0.1	-3		1659	0.5	15		1643	0.5	15
5 Su	0228	0.3	9	20 M	0210	0.5	15	5 W	0353	0.4	12	20 Th	0340	0.3	9	5 Sa	0506	0.5	15	20 Su	0523	0.1	3
	0921	2.1	64		0901	2.1	64		1036	2.0	61		1028	2.3	70		1133	1.9	58		1207	1.9	58
	1617	-0.5	-15		2239	1.1	34		1710	0.0	0		1643	0.0	0		1727	0.6	18		1720	0.6	18
6 M	0315	0.3	9	21 Tu	0256	0.4	12	6 Th	0439	0.4	12	21 F	0434	0.2	6	6 Su	0549	0.5	15	21 M	0622	0.1	3
	1006	2.1	64		0947	2.1	64		1114	1.9	58		1119	2.2	67		1213	1.7	52		1306	1.7	52
	1700	-0.4	-12		2318	1.2	37		1744	0.1	3		1721	0.1	3		1754	0.7	21		1800	0.7	21
7 Tu	0403	0.4	12	22 W	0345	0.4	12	7 F	0008	1.4	43	22 Sa	0531	0.2	6	7 M	0013	1.9	58	22 Tu	0034	2.3	70
	1050	2.0	61		1034	2.1	64		0527	0.5	15		1212	2.0	61		0635	0.5	15		0727	0.1	3
	1743	-0.3	-9		1715	-0.3	-9		1153	1.8	55		1759	0.3	9		1259	1.6	49		1412	1.5	46
8 W	0019	1.1	34	23 Th	0438	0.4	12	8 Sa	0038	1.5	46	23 Su	0031	1.9	58	8 Tu	0047	1.8	55	23 W	0127	2.3	70
	0453	0.4	12		1123	2.1	64		0816	0.5	15		0633	0.2	6		0727	0.5	15		0840	0.2	6
	1132	1.9	58		1755	-0.2	-6		1235	1.6	49		1310	1.7	52		1351	1.4	43		1533	1.3	40
9 Th	0057	1.1	34	24 F	0036	1.4	43	9 Su	0111	1.5	46	24 M	0113	2.0	61	9 W	0127	1.8	55	24 Th	0233	2.2	67
	0545	0.4	12		0535	0.3	9		0711	0.5	15		0740	0.2	6		0830	0.5	15		1000	0.3	9
	1216	1.7	52		1215	1.9	58		1322	1.5	46		1417	1.5	46		1459	1.3	40		1704	1.3	40
10 F	0135	1.2	37	25 Sa	0116	1.5	46	10 M	0147	1.6	49	25 Tu	0203	2.0	61	10 Th	0216	1.8	55	25 F	0354	2.1	64
	0643	0.5	15		0639	0.3	9		0812	0.5	15		0856	0.2	6		0943	0.5	15		1118	0.4	12
	1301	1.6	49		1313	1.7	52		1417	1.3	40		1537	1.2	37		1627	1.2	37		1820	1.3	40
11 Sa	0214	1.3	40	26 Su	0159	1.6	49	11 Tu	0227	1.6	49	26 W	0302	2.0	61	11 F	0318	1.8	55	26 Sa	0519	2.1	64
	0748	0.5	15		0751	0.2	6		0920	0.4	12		1016	0.2	6		1058	0.4	12		1222	0.4	12
	1353	1.4	43		1419	1.5	46		1526	1.1	34		1710	1.1	34		1758	1.2	37		1913	1.4	43
12 Su	0254	1.3	40	27 M	0246	1.7	52	12 W	0314	1.6	49	27 Th	0412	2.0	61	12 Sa	0432	1.9	58	27 Su	0631	2.1	64
	0900	0.5	15		0909	0.2	6		1031	0.4	12		1133	0.2	6		1202	0.4	12		1311	0.4	12
	1453	1.2	37		1538	1.2	37		1653	1.0	30		1834	1.1	34		1859	1.3	40		1953	1.5	46
13 M	0336	1.4	43	28 Tu	0339	1.8	55	13 Th	0410	1.7	52	28 F	0529	2.1	64	13 Su	0546	2.0	61	28 M	0031	0.8	24
	1012	0.4	12		1028	0.1	3		1138	0.3	9		1241	0.1	3		1253	0.3	9		0727	2.1	64
	1606	1.1	34		1709	1.1	34		1821	1.0	30		1935	1.2	37		1942	1.4	43		1350	0.5	15
14 Tu	0421	1.5	46	29 W	0438	1.9	58	14 F	0511	1.8	55	29 Sa	0638	2.1	64	14 M	0650	2.2	67	29 Tu	0124	0.7	21
	1119	0.3	9		1142	0.0	0		1235	0.2	6		1336	0.1	3		1337	0.2	6		0813	2.2	67
	1729	1.0	30		1836	1.0	30		1926	1.1	34		2021	1.2	37		2018	1.5	46		1422	0.5	15
15 W	0507	1.6	49	30 Th	0540	2.0	61	15 Sa	0612	1.9	58	30 Su	0030	0.7	21	15 Tu	0055	0.7	21	30 W	0210	0.6	18
	1216	0.1	3		1248	-0.1	-3		1325	0.1	3		0736	2.1	64		0746	2.3	70		0853	2.1	64
	1847	1.0	30		1945	1.0	30		2013	1.1	34		1420	0.1	3		1416	0.2	6		1452	0.6	18
16 Th	0231	0.6	18	31 F	0642	2.0	61	16 Su	0825	2.2	67	31 M	0125	0.6	18	16 Tu	2052	1.7	52	16 W	2117	1.9	58
					1346	-0.2	-6						0825	2.2	67								
					2038	1.0	30						1457	0.2	6								

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Key West, Florida, 2020

Times and Heights of High and Low Waters

October				November				December			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft	h m	ft	h m	ft	h m	ft	h m	ft	h m	ft
1 Th	0252 0.6 18 0929 2.1 64 1519 0.6 18 2140 2.0 61	16 F	0235 0.2 6 0923 2.2 67 1451 0.5 15 2117 2.4 73	1 Su	0351 0.2 6 1026 1.7 52 1529 0.8 24 2149 2.2 67	16 M	0410 -0.3 -9 1101 1.6 49 1533 0.6 18 2208 2.5 76	1 Tu	0411 -0.1 -3 1053 1.3 40 1523 0.7 21 2156 2.0 61	16 W	0452 -0.5 -15 1137 1.1 34 1557 0.4 12 2244 2.2 67
2 F	0331 0.5 15 1004 2.0 61 1546 0.7 21 2203 2.0 61	17 Sa	0327 0.0 0 1015 2.1 64 1528 0.6 18 2153 2.5 76	2 M	0426 0.2 6 1104 1.6 49 1556 0.8 24 2219 2.2 67	17 Tu	0503 -0.3 -9 1152 1.4 43 1616 0.6 18 2255 2.5 76	2 W	0448 -0.1 -3 1135 1.3 40 1556 0.7 21 2232 2.0 61	17 Th	0541 -0.4 -12 1223 1.1 34 1646 0.4 12 2333 2.1 64
3 Sa	0408 0.4 12 1039 2.0 61 1612 0.7 21 2228 2.1 64	18 Su	0419 -0.1 -3 1108 1.9 58 1605 0.7 21 2233 2.6 79	3 Tu	0503 0.2 6 1145 1.5 46 1624 0.9 27 2251 2.1 64	18 W	0557 -0.2 -6 1245 1.3 40 1701 0.7 21 2346 2.3 70	3 Th	0529 -0.1 -3 1219 1.2 37 1633 0.7 21 2311 2.0 61	18 F	0631 -0.2 -6 1310 1.1 34 1740 0.5 15
4 Su	0445 0.4 12 1117 1.8 55 1638 0.8 24 2255 2.1 64	19 M	0513 -0.1 -3 1201 1.8 55 1644 0.8 24 2316 2.5 76	4 W	0544 0.2 6 1231 1.4 43 1655 0.9 27 2326 2.1 64	19 Th	0654 0.0 0 1342 1.2 37 1754 0.8 24	4 F	0613 0.0 0 1308 1.2 37 1716 0.7 21 2356 1.9 58	19 Sa	0023 1.9 58 0721 0.0 0 1359 1.1 34 1842 0.5 15
5 M	0524 0.4 12 1157 1.7 52 1704 0.9 27 2325 2.1 64	20 Tu	0610 0.0 0 1258 1.6 49 1726 0.8 24	5 Th	0630 0.3 9 1324 1.4 43 1731 1.0 30	20 F	0041 2.2 67 0755 0.1 3 1445 1.2 37 1858 0.8 24	5 Sa	0703 0.0 0 1400 1.2 37 1810 0.8 24	20 Su	0116 1.7 52 0812 0.1 3 1450 1.2 37 1955 0.6 18
6 Tu	0605 0.4 12 1242 1.6 49 1732 1.0 30 2359 2.0 61	21 W	0005 2.5 76 0712 0.1 3 1402 1.4 43 1814 0.9 27	6 F	0008 2.0 61 0725 0.3 9 1427 1.3 40 1817 1.0 30	21 Sa	0144 2.0 61 0859 0.3 9 1553 1.3 40 2019 0.9 27	6 Su	0049 1.9 58 0756 0.1 3 1455 1.2 37 1920 0.8 24	21 M	0215 1.5 46 0902 0.2 6 1541 1.2 37 2117 0.6 18
7 W	0653 0.4 12 1335 1.5 46 1803 1.0 30	22 Th	0101 2.3 70 0821 0.3 9 1518 1.3 40 1914 1.0 30	7 Sa	0101 2.0 61 0828 0.4 12 1538 1.3 40 1924 1.1 34	22 Su	0257 1.8 55 1000 0.4 12 1655 1.4 43 2149 0.9 27	7 M	0154 1.7 52 0851 0.2 6 1549 1.3 40 2046 0.7 21	22 Tu	0325 1.3 40 0951 0.4 12 1630 1.3 40 2235 0.5 15
8 Th	0038 2.0 61 0751 0.5 15 1442 1.4 43 1843 1.1 34	23 F	0209 2.2 67 0936 0.4 12 1639 1.3 40 2035 1.0 30	8 Su	0209 1.9 58 0935 0.4 12 1644 1.4 43 2055 1.1 34	23 M	0419 1.7 52 1054 0.5 15 1744 1.5 46 2308 0.8 24	8 Tu	0313 1.6 49 0946 0.3 9 1638 1.5 46 2212 0.5 15	23 W	0446 1.2 37 1037 0.4 12 1714 1.4 43 2342 0.3 9
9 F	0129 2.0 61 0902 0.5 15 1607 1.3 40 1942 1.2 37	24 Sa	0332 2.0 61 1047 0.5 15 1747 1.4 43 2205 1.0 30	9 M	0333 1.9 58 1036 0.4 12 1734 1.5 46 2224 0.9 27	24 Tu	0536 1.6 49 1139 0.6 18 1823 1.6 49	9 W	0442 1.5 46 1038 0.4 12 1724 1.6 49 2326 0.3 9	24 Th	0604 1.1 34 1121 0.5 15 1754 1.5 46
10 Sa	0237 2.0 61 1017 0.5 15 1728 1.4 43 2109 1.2 37	25 Su	0458 2.0 61 1146 0.5 15 1837 1.6 49 2324 0.9 27	10 Tu	0459 1.9 58 1128 0.5 15 1815 1.7 52 2337 0.7 21	25 W	0011 0.6 18 0641 1.6 49 1218 0.6 18 1854 1.7 52	10 Th	0606 1.5 46 1126 0.4 12 1808 1.8 55	25 F	0037 0.2 6 0709 1.1 34 1201 0.5 15 1833 1.6 49
11 Su	0400 2.0 61 1122 0.5 15 1823 1.5 46 2236 1.1 34	26 M	0611 2.0 61 1231 0.6 18 1914 1.7 52	11 W	0617 1.9 58 1213 0.5 15 1852 1.9 58	26 Th	0102 0.4 12 0733 1.5 46 1252 0.6 18 1922 1.8 55	11 F	0031 0.0 0 0719 1.4 43 1212 0.5 15 1851 2.0 61	26 Sa	0124 0.0 0 0801 1.1 34 1238 0.5 15 1910 1.7 52
12 M	0522 2.1 64 1214 0.4 12 1902 1.6 49 2347 0.9 27	27 Tu	0027 0.8 24 0709 2.0 61 1308 0.6 18 1944 1.8 55	12 Th	0039 0.4 12 0723 1.9 58 1254 0.5 15 1928 2.1 64	27 F	0145 0.3 9 0818 1.5 46 1323 0.7 21 1950 1.9 58	12 Sa	0128 -0.2 -6 0821 1.4 43 1257 0.5 15 1936 2.2 67	27 Su	0205 -0.1 -3 0844 1.1 34 1314 0.5 15 1948 1.7 52
13 Tu	0632 2.2 67 1258 0.4 12 1937 1.8 55	28 W	0118 0.7 21 0755 1.9 58 1340 0.7 21 2009 1.9 58	13 F	0135 0.1 3 0823 1.9 58 1334 0.6 18 2005 2.3 70	28 Sa	0224 0.1 3 0859 1.5 46 1353 0.7 21 2019 2.0 61	13 Su	0222 -0.4 -12 0915 1.3 40 1341 0.4 12 2022 2.3 70	28 M	0244 -0.2 -6 0924 1.0 30 1349 0.5 15 2026 1.8 55
14 W	0047 0.7 21 0733 2.3 70 1337 0.4 12 2010 2.0 61	29 Th	0201 0.5 15 0836 1.9 58 1409 0.7 21 2033 2.0 61	14 Sa	0228 -0.1 -3 0918 1.8 55 1413 0.6 18 2043 2.4 73	29 Su	0300 0.0 0 0937 1.4 43 1423 0.7 21 2049 2.0 61	14 M	0313 -0.5 -15 1005 1.2 37 1425 0.4 12 2108 2.3 70	29 Tu	0320 -0.3 -9 1002 1.0 30 1424 0.4 12 2105 1.8 55
15 Th	0142 0.4 12 0830 2.3 70 1414 0.5 15 2043 2.2 67	30 F	0240 0.4 12 0913 1.9 58 1436 0.7 21 2056 2.1 64	15 Su	0319 -0.3 -9 1010 1.7 52 1453 0.6 18 2125 2.5 76	30 M	0335 0.0 0 1014 1.4 43 1452 0.7 21 2122 2.0 61	15 Tu	0403 -0.6 -18 1052 1.2 37 1510 0.4 12 2156 2.3 70	30 W	0357 -0.4 -12 1040 1.0 30 1501 0.4 12 2144 1.9 58
		31 Sa	0316 0.3 9 0949 1.8 55 1502 0.8 24 2122 2.2 67							31 Th	0435 -0.4 -12 1119 1.0 30 1540 0.4 12 2224 1.9 58

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Naples, Florida, 2020

Times and Heights of High and Low Waters

April				May				June			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm
1 W	0020 0.1 3 0735 1.8 55 0950 1.7 52 1643 2.4 73	16 Th	0138 0.2 6 0958 2.1 64 1413 1.5 46 1954 2.3 70	1 F	0053 0.1 3 0800 2.2 67 1315 1.6 49 1851 2.5 76	16 Sa	0150 0.6 18 0836 2.4 73 1436 1.1 34 2027 2.2 67	1 M	0212 0.6 18 0832 2.7 82 1454 0.4 12 2119 2.5 76	16 Tu	0237 1.2 37 0847 2.7 82 1529 0.5 15 2153 2.1 64
2 Th	0127 0.0 0 0853 2.0 61 1333 1.7 52 1906 2.4 73	17 F	0235 0.3 9 1007 2.2 67 1509 1.2 37 2102 2.4 73	2 Sa	0152 0.1 3 0845 2.4 73 1419 1.2 37 2015 2.6 79	17 Su	0240 0.7 21 0909 2.5 76 1522 0.8 24 2127 2.3 70	2 Tu	0305 0.8 24 0910 2.9 88 1547 0.0 0 2223 2.5 76	17 W	0321 1.3 40 0924 2.8 85 1611 0.2 6 2242 2.2 67
3 F	0227 -0.2 -6 0939 2.2 67 1440 1.4 43 2030 2.6 79	18 Sa	0324 0.4 12 1015 2.4 73 1553 1.0 30 2154 2.5 76	3 Su	0247 0.2 6 0923 2.6 79 1514 0.8 24 2125 2.7 82	18 M	0324 0.9 27 0939 2.6 79 1602 0.6 18 2215 2.3 70	3 W	0354 1.0 30 0947 3.1 94 1637 -0.4 -12 2318 2.5 76	18 Th	0400 1.4 43 0957 2.9 88 1650 0.0 0 2324 2.2 67
4 Sa	0321 -0.2 -6 1012 2.3 70 1534 1.1 34 2135 2.8 85	19 Su	0406 0.4 12 1032 2.5 76 1631 0.7 21 2236 2.5 76	4 M	0338 0.3 9 0955 2.7 82 1604 0.3 9 2224 2.8 85	19 Tu	0404 1.0 30 1008 2.7 82 1639 0.3 9 2256 2.4 73	4 Th	0440 1.1 34 1023 3.2 98 1726 -0.6 -18	19 F	0436 1.5 46 1026 2.9 88 1729 -0.3 -9
5 Su	0409 -0.3 -9 1041 2.5 76 1622 0.7 21 2229 3.0 91	20 M	0443 0.5 15 1053 2.6 79 1706 0.5 15 2312 2.6 79	5 Tu	0424 0.4 12 1026 2.9 88 1652 -0.1 -3 2316 2.9 88	20 W	0439 1.1 34 1034 2.8 85 1715 0.1 3 2335 2.4 73	5 F	0011 2.5 76 0524 1.3 40 1059 3.3 101 1813 -0.8 -24	20 Sa	0006 2.2 67 0511 1.5 46 1052 3.0 91 1809 -0.4 -12
6 M	0454 -0.2 -6 1109 2.7 82 1708 0.2 6 2319 3.1 94	21 Tu	0516 0.6 18 1116 2.7 82 1740 0.3 9 2347 2.6 79	6 W	0508 0.6 18 1056 3.1 94 1739 -0.5 -15	21 Th	0511 1.2 37 1059 2.9 88 1751 -0.1 -3	6 Sa	0103 2.4 73 0608 1.3 40 1136 3.3 101 1901 -0.8 -24	21 Su	0050 2.3 70 0545 1.5 46 1116 3.1 94 1850 -0.5 -15
7 Tu	0537 0.0 0 1137 2.8 85 1754 -0.1 -3	22 W	0547 0.8 24 1138 2.8 85 1814 0.1 3	7 Th	0008 2.8 85 0550 0.8 24 1126 3.2 98 1827 -0.7 -21	22 F	0014 2.4 73 0541 1.3 40 1119 2.9 88 1828 -0.3 -9	7 Su	0156 2.3 70 0653 1.4 43 1216 3.2 98 1948 -0.6 -18	22 M	0138 2.3 70 0623 1.6 49 1144 3.1 94 1933 -0.5 -15
8 W	0009 3.0 91 0618 0.2 6 1205 3.0 91 1841 -0.4 -12	23 Th	0023 2.5 76 0616 0.9 27 1158 2.8 85 1849 -0.1 -3	8 F	0101 2.6 79 0631 1.1 34 1158 3.2 98 1915 -0.8 -24	23 Sa	0056 2.3 70 0610 1.4 43 1136 3.0 91 1907 -0.4 -12	8 M	0246 2.2 67 0740 1.5 46 1302 3.1 94 2034 -0.4 -12	23 Tu	0226 2.3 70 0706 1.6 49 1221 3.1 94 2016 -0.5 -15
9 Th	0102 2.9 88 0659 0.5 15 1236 3.0 91 1930 -0.6 -18	24 F	0102 2.4 73 0643 1.1 34 1214 2.8 85 1926 -0.1 -3	9 Sa	0158 2.5 76 0713 1.2 37 1234 3.2 98 2004 -0.7 -21	24 Su	0144 2.3 70 0639 1.5 46 1156 3.0 91 1949 -0.4 -12	9 Tu	0335 2.2 67 0829 1.5 46 1355 2.9 88 2122 -0.2 -6	24 W	0314 2.3 70 0754 1.6 49 1309 3.1 94 2102 -0.3 -9
10 F	0159 2.6 79 0739 0.8 24 1309 3.0 91 2020 -0.6 -18	25 Sa	0145 2.3 70 0706 1.2 37 1229 2.8 85 2005 -0.2 -6	10 Su	0256 2.3 70 0757 1.4 43 1316 3.1 94 2054 -0.5 -15	25 M	0236 2.2 67 0711 1.6 49 1225 3.0 91 2032 -0.4 -12	10 W	0425 2.2 67 0924 1.6 49 1457 2.7 82 2212 0.1 3	25 Th	0401 2.4 73 0849 1.5 46 1409 2.9 88 2150 -0.1 -3
11 Sa	0259 2.4 73 0820 1.1 34 1347 2.9 88 2113 -0.4 -12	26 Su	0234 2.2 67 0728 1.3 40 1251 2.8 85 2048 -0.2 -6	11 M	0358 2.2 67 0844 1.6 49 1407 2.9 88 2148 -0.2 -6	26 Tu	0332 2.2 67 0750 1.6 49 1305 2.9 88 2120 -0.3 -9	11 Th	0514 2.3 70 1032 1.6 49 1607 2.4 73 2307 0.4 12	26 F	0448 2.4 73 0954 1.4 43 1525 2.7 82 2244 0.2 6
12 Su	0406 2.1 64 0902 1.4 43 1432 2.8 85 2213 -0.2 -6	27 M	0332 2.1 64 0752 1.5 46 1323 2.7 82 2137 -0.1 -3	12 Tu	0504 2.1 64 0943 1.7 52 1513 2.6 79 2248 0.0 0	27 W	0431 2.2 67 0840 1.7 52 1357 2.8 85 2214 -0.2 -6	12 F	0600 2.3 70 1149 1.5 46 1722 2.3 70	27 Sa	0534 2.5 76 1112 1.3 40 1700 2.5 76 2343 0.5 15
13 M	0526 1.9 58 0958 1.6 49 1532 2.6 79 2321 0.0 0	28 Tu	0441 2.0 61 0824 1.6 49 1406 2.7 82 2238 0.0 0	13 W	0612 2.1 64 1107 1.7 52 1639 2.4 73 2353 0.3 9	28 Th	0529 2.2 67 0954 1.7 52 1504 2.7 82 2316 0.0 0	13 Sa	0005 0.7 21 0644 2.4 73 1257 1.3 40 1834 2.2 67	28 Su	0618 2.6 79 1228 1.0 30 1831 2.4 73
14 Tu	0709 1.9 58 1130 1.7 52 1706 2.4 73	29 W	0556 2.0 61 0911 1.8 55 1502 2.6 79 2347 0.0 0	14 Th	0710 2.2 67 1233 1.6 49 1804 2.3 70	29 F	0622 2.3 70 1134 1.6 49 1652 2.5 76	14 Su	0059 0.9 27 0726 2.5 76 1354 1.0 30 1943 2.1 64	29 M	0042 0.8 24 0701 2.7 82 1335 0.6 18 1956 2.3 70
15 W	0033 0.1 3 0928 2.0 61 1301 1.7 52 1837 2.3 70	30 Th	0703 2.1 64 1145 1.8 55 1633 2.5 76	15 F	0055 0.5 15 0757 2.3 70 1341 1.4 43 1918 2.2 67	30 Sa	0018 0.2 6 0708 2.4 73 1253 1.3 40 1839 2.4 73	15 M	0150 1.0 30 0807 2.6 79 1444 0.7 21 2053 2.1 64	30 Tu	0139 1.1 34 0746 2.9 88 1436 0.2 6 2121 2.3 70
						31 Su	0117 0.4 12 0751 2.6 79 1356 0.9 27 2003 2.5 76				

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Naples, Florida, 2020

Times and Heights of High and Low Waters

July				August				September			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm
1 W	0235 1.3 40 0833 3.0 91 1533 -0.1 -3 2233 2.3 70	16 Th	0236 1.6 49 0842 2.8 85 1541 0.2 6 2229 2.1 64	1 Sa	0407 1.6 49 1002 3.3 101 1701 -0.2 -6	16 Su	0347 1.8 55 0947 3.2 98 1643 -0.1 -3 2329 2.5 76	1 Tu	0526 1.3 40 1124 3.4 104 1802 0.4 12	16 W	0459 1.2 37 1105 3.7 113 1741 0.2 6 2351 3.0 91
2 Th	0328 1.4 43 0921 3.1 94 1625 -0.4 -12 2329 2.3 70	17 F	0324 1.7 52 0925 2.9 88 1626 0.0 0 2313 2.2 67	2 Su	0012 2.4 73 0455 1.6 49 1047 3.3 101 1745 -0.2 -6	17 M	0432 1.7 52 1029 3.4 104 1726 -0.2 -6	2 W	0020 2.8 85 0605 1.2 37 1200 3.4 104 1838 0.5 15	17 Th	0543 0.9 27 1150 3.7 113 1823 0.4 12
3 F	0419 1.5 46 1006 3.3 101 1714 -0.6 -18	18 Sa	0408 1.7 52 1003 3.0 91 1708 -0.2 -6 2354 2.3 70	3 M	0039 2.4 73 0540 1.5 46 1128 3.4 104 1827 -0.2 -6	18 Tu	0003 2.6 79 0515 1.5 46 1109 3.5 107 1808 -0.2 -6	3 Th	0045 2.8 85 0642 1.1 34 1237 3.3 101 1912 0.7 21	18 F	0020 3.1 94 0629 0.6 18 1240 3.6 110 1904 0.6 18
4 Sa	0017 2.3 70 0506 1.5 46 1048 3.3 101 1801 -0.6 -18	19 Su	0449 1.7 52 1038 3.2 98 1749 -0.4 -12	4 Tu	0106 2.5 76 0623 1.4 43 1208 3.3 101 1906 0.0 0	19 W	0036 2.7 82 0559 1.3 40 1152 3.6 110 1850 -0.1 -3	4 F	0112 2.9 88 0720 1.0 30 1315 3.2 98 1945 0.9 27	19 Sa	0050 3.2 98 0717 0.4 12 1335 3.4 104 1945 0.9 27
5 Su	0100 2.3 70 0552 1.5 46 1129 3.3 101 1846 -0.6 -18	20 M	0034 2.4 73 0529 1.6 49 1111 3.3 101 1831 -0.5 -15	5 W	0135 2.5 76 0705 1.3 40 1248 3.2 98 1944 0.2 6	20 Th	0111 2.8 85 0645 1.1 34 1239 3.6 110 1932 0.1 3	5 Sa	0141 2.9 88 0757 0.9 27 1355 3.0 91 2015 1.1 34	20 Su	0123 3.3 101 0808 0.2 6 1436 3.2 98 2027 1.3 40
6 M	0141 2.3 70 0638 1.4 43 1211 3.2 98 1929 -0.4 -12	21 Tu	0115 2.5 76 0612 1.5 46 1148 3.4 104 1914 -0.5 -15	6 Th	0207 2.6 79 0746 1.2 37 1331 3.1 94 2020 0.4 12	21 F	0146 2.9 88 0733 0.9 27 1334 3.4 104 2014 0.4 12	6 Su	0210 2.9 88 0836 0.9 27 1440 2.8 85 2041 1.4 43	21 M	0159 3.3 101 0902 0.2 6 1542 2.9 88 2110 1.6 49
7 Tu	0219 2.3 70 0723 1.4 43 1256 3.1 94 2011 -0.2 -6	22 W	0156 2.5 76 0658 1.4 43 1232 3.4 104 1956 -0.3 -9	7 F	0240 2.7 82 0828 1.2 37 1415 2.9 88 2055 0.7 21	22 Sa	0221 2.9 88 0825 0.7 21 1434 3.2 98 2056 0.7 21	7 M	0236 2.8 85 0920 0.9 27 1531 2.6 79 2100 1.6 49	22 Tu	0243 3.2 98 1003 0.3 9 1700 2.6 79 2202 1.9 58
8 W	0257 2.4 73 0810 1.4 43 1345 3.0 91 2053 0.0 0	23 Th	0236 2.6 79 0748 1.3 40 1325 3.3 101 2040 -0.1 -3	8 Sa	0316 2.7 82 0912 1.2 37 1504 2.7 82 2128 1.0 30	23 Su	0258 3.0 91 0921 0.6 18 1542 2.9 88 2140 1.1 34	8 Tu	0301 2.8 85 1013 0.9 27 1636 2.4 73 2111 1.8 55	23 W	0340 3.1 94 1115 0.4 12 1832 2.4 73 2320 2.1 64
9 Th	0335 2.4 73 0858 1.4 43 1437 2.8 85 2134 0.3 9	24 F	0316 2.6 79 0840 1.2 37 1427 3.1 94 2124 0.2 6	9 Su	0353 2.7 82 1002 1.1 34 1559 2.5 76 2201 1.2 37	24 M	0339 3.0 91 1025 0.6 18 1700 2.6 79 2232 1.5 46	9 W	0329 2.7 82 1122 0.9 27 1757 2.3 70 2127 2.0 61	24 Th	0507 3.0 91 1231 0.5 15 2048 2.4 73
10 F	0416 2.4 73 0951 1.4 43 1534 2.6 79 2218 0.6 18	25 Sa	0356 2.7 82 0939 1.0 30 1538 2.8 85 2212 0.6 18	10 M	0434 2.7 82 1105 1.1 34 1706 2.3 70 2235 1.5 46	25 Tu	0431 3.0 91 1139 0.5 15 1829 2.4 73 2340 1.8 55	10 Th	0417 2.7 82 1234 0.9 27 1920 2.3 70 2204 2.1 64	25 F	0046 2.1 64 0636 2.9 88 1340 0.5 15 2201 2.5 76
11 Sa	0458 2.5 76 1055 1.3 40 1638 2.3 70 2306 0.9 27	26 Su	0439 2.7 82 1049 0.9 27 1700 2.6 79 2307 1.0 30	11 Tu	0520 2.6 79 1214 1.0 30 1823 2.1 64 2329 1.7 52	26 W	0537 3.0 91 1254 0.4 12 2019 2.3 70	11 F	0610 2.7 82 1339 0.7 21 2044 2.3 70	26 Sa	0200 2.0 61 0755 3.0 91 1442 0.6 18 2228 2.6 79
12 Su	0542 2.5 76 1203 1.2 37 1748 2.2 67	27 M	0525 2.8 85 1204 0.7 21 1827 2.3 70	12 W	0612 2.7 82 1318 0.8 24 1944 2.1 64	27 Th	0055 1.9 58 0650 3.0 91 1402 0.3 9 2222 2.4 73	12 Sa	0136 2.1 64 0730 2.9 88 1437 0.5 15 2144 2.5 76	27 Su	0300 1.7 52 0904 3.1 94 1534 0.6 18 2242 2.7 82
13 M	0000 1.2 37 0626 2.6 79 1306 1.0 30 1900 2.1 64	28 Tu	0009 1.3 40 0616 2.9 88 1314 0.4 12 1959 2.2 67	13 Th	0052 1.9 58 0707 2.7 82 1417 0.6 18 2111 2.1 64	28 F	0205 1.9 58 0802 3.1 94 1504 0.3 9 2303 2.5 76	13 Su	0238 2.0 61 0836 3.1 94 1529 0.3 9 2221 2.6 79	28 M	0350 1.5 46 0957 3.2 98 1619 0.6 18 2255 2.8 85
14 Tu	0054 1.4 43 0710 2.6 79 1402 0.7 21 2016 2.0 61	29 W	0112 1.5 46 0711 3.0 91 1419 0.2 6 2146 2.2 67	14 F	0159 1.9 58 0805 2.8 85 1510 0.4 12 2214 2.3 70	29 Sa	0307 1.8 55 0909 3.2 98 1558 0.2 6 2326 2.5 76	14 M	0330 1.8 55 0932 3.3 101 1615 0.2 6 2253 2.8 85	29 Tu	0431 1.3 40 1039 3.2 98 1658 0.7 21 2313 2.9 88
15 W	0146 1.5 46 0756 2.7 82 1454 0.5 15 2131 2.0 61	30 Th	0214 1.7 52 0811 3.1 94 1520 0.0 0 2259 2.3 70	15 Sa	0258 1.9 58 0859 3.0 91 1559 0.1 3 2254 2.4 73	30 Su	0400 1.7 52 1003 3.3 101 1644 0.2 6 2341 2.6 79	15 Tu	0415 1.5 46 1020 3.5 107 1659 0.2 6 2322 2.9 88	30 W	0509 1.1 34 1115 3.3 101 1733 0.8 24 2334 3.0 91
		31 F	0313 1.7 52 0910 3.2 98 1613 -0.2 -6 2342 2.3 70			31 M	0446 1.5 46 1046 3.4 104 1725 0.3 9 2358 2.7 82				

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

St. Petersburg, Florida, 2020

Times and Heights of High and Low Waters

January				February				March			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft	h m	ft	h m	ft	h m	ft	h m	ft	h m	ft
1 W	0452 1.6 1221 0.0 1915 1.4	16 Th	0543 1.5 1231 0.0 1858 1.5	1 Sa	0112 0.2 0705 1.0 1217 0.5 1845 1.7	16 Su	0232 -0.2 1913 -1.9	1 Su	0024 0.0 0648 1.0 1057 0.8 1730 1.9	16 M	0207 -0.2 1814 2.1
	49 0 43		46 0 46		6 30 15 52		-6 58		0 30 24 58		-6 64
2 Th	0048 0.8 0606 1.3 1302 0.2 1947 1.5	17 F	0122 0.3 0719 1.2 1310 0.4 1936 1.7	2 Su	0229 0.1 0906 0.9 1247 0.7 1927 1.8	17 M	0358 -0.4 2018 1.9	2 M	0137 -0.1 1816 1.9	17 Tu	0332 -0.3 1937 1.9
	24 40 12 46		9 37 12 52		3 27 21 55		-12 58		-3 58		-9 58
3 F	0214 0.6 0742 1.1 1342 0.4 2020 1.6	18 Sa	0254 0.1 0922 1.0 1349 0.6 2019 1.8	3 M	0344 -0.1 2017 1.8	18 Tu	0509 -0.5 2133 2.0	3 Tu	0259 -0.2 1916 1.9	18 W	0444 -0.3 2121 1.9
	18 34 18 49		3 30 18 55		-3 55		-15 61		-6 58		-9 58
4 Sa	0329 0.3 0933 1.0 1424 0.6 2053 1.7	19 Su	0414 -0.2 1129 1.0 1429 0.9 2107 2.0	4 Tu	0450 -0.3 2113 1.9	19 W	0606 -0.6 1416 1.2 1616 1.1 2244 2.0	4 W	0416 -0.3 2034 2.0	19 Th	0538 -0.3 1323 1.4 1653 1.2 2245 1.9
	9 30 18 52		-6 30 27 61		-9 58		-18 37 34 61		-9 61		-9 43 37 58
5 Su	0430 0.0 1114 1.0 1505 0.8 2127 1.9	20 M	0521 -0.5 1310 1.1 1513 1.0 2157 2.1	5 W	0546 -0.6 2213 2.0	20 Th	0651 -0.6 1429 1.2 1730 1.1 2342 2.0	5 Th	0519 -0.5 2155 2.1	20 F	0621 -0.3 1334 1.5 1753 1.0 2346 1.9
	0 30 24 58		-15 34 30 64		-18 61		-18 37 34 61		-15 64		-9 46 30 58
6 M	0522 -0.2 1237 1.1 1546 0.9 2203 2.0	21 Tu	0617 -0.7 2247 2.1	6 Th	0636 -0.7 1432 1.2 1645 1.1 2310 2.2	21 F	0729 -0.6 1443 1.2 1823 1.0	6 F	0612 -0.6 1348 1.3 1656 1.1 2306 2.2	21 Sa	0655 -0.2 1346 1.5 1837 0.8
	-6 34 27 61		-21 64		-21 37 34 67		-18 37 30		-18 40 34 67		-6 46 24
7 Tu	0609 -0.5 1342 1.1 1624 1.0 2242 2.1	22 W	0704 -0.8 1459 1.1 1701 1.0 2335 2.2	7 F	0722 -0.9 1454 1.2 1744 1.0	22 Sa	0030 2.0 0800 -0.5 1455 1.3 1907 0.8	7 Sa	0657 -0.7 1401 1.3 1757 0.9	22 Su	0033 1.9 0723 -0.1 1355 1.6 1913 0.6
	-15 34 30 64		-24 34 30 67		-27 37 30		61 -15 40 24		27		58 -3 49 18
8 W	0653 -0.7 1436 1.2 1702 1.1 2323 2.2	23 Th	0746 -0.8 1527 1.1 1754 1.0	8 Sa	0005 2.3 0804 -0.9 1515 1.1 1838 0.9	23 Su	0111 2.0 0827 -0.4 1504 1.3 1946 0.7	8 Su	0007 2.3 0737 -0.6 1416 1.4 1851 0.7	23 M	0114 1.9 0747 0.0 1403 1.6 1947 0.5
	-21 37 34 67		-24 34 30		70 -27 34 27		61 -12 40 21		70 -18 43 21		58 0 49 15
9 Th	0736 -0.8 1519 1.2 1739 1.1	24 F	0020 2.2 0822 -0.8 1548 1.1 1842 1.0	9 Su	0058 2.4 0844 -0.9 1533 1.2 1931 0.7	24 M	0148 1.9 0850 -0.3 1513 1.4 2024 0.5	9 M	0103 2.3 0813 -0.5 1432 1.4 1942 0.4	24 Tu	0151 1.8 0807 0.2 1411 1.7 2020 0.3
	-24 37 34		67 -24 34 30		73 -27 37 21		58 -9 43 15		70 -15 43 12		55 6 52 9
10 F	0006 2.3 0819 -0.9 1556 1.1 1821 1.0	25 Sa	0102 2.1 0855 -0.7 1603 1.1 1929 0.9	10 M	0150 2.3 0921 -0.7 1553 1.2 2027 0.6	25 Tu	0225 1.8 0912 -0.1 1523 1.5 2103 0.4	10 Tu	0158 2.2 0845 -0.2 1450 1.6 2034 0.2	25 W	0228 1.7 0825 0.4 1422 1.9 2054 0.1
	70 -27 34 30		64 -21 34 27		70 -21 37 18		55 -3 46 12		67 -6 49 6		52 12 58 3
11 Sa	0052 2.4 0901 -1.0 1627 1.1 1909 1.0	26 Su	0142 2.1 0925 -0.6 1617 1.1 2016 0.8	11 Tu	0243 2.2 0957 -0.5 1614 1.3 2126 0.4	26 W	0303 1.7 0934 0.0 1539 1.6 2145 0.2	11 W	0252 2.0 0915 0.1 1510 1.8 2128 0.0	26 Th	0305 1.6 0842 0.5 1438 2.0 2130 0.0
	73 -30 34 30		64 -18 34 24		67 -15 40 12		52 0 49 6		61 3 55 0		49 15 61 0
12 Su	0141 2.4 0944 -0.9 1655 1.1 2004 0.9	27 M	0222 2.0 0953 -0.5 1631 1.2 2105 0.7	12 W	0338 2.0 1030 -0.2 1638 1.4 2230 0.2	27 Th	0345 1.6 0955 0.2 1559 1.7 2231 0.1	12 Th	0349 1.8 0942 0.4 1535 1.9 2226 -0.2	27 F	0346 1.5 0900 0.7 1459 2.1 2211 -0.1
	73 -27 34 27		61 -15 37 21		61 -6 43 6		49 6 52 3		55 12 58 -6		46 21 64 -3
13 M	0232 2.3 1027 -0.8 1723 1.1 2109 0.8	28 Tu	0304 1.8 1021 -0.3 1649 1.3 2158 0.6	13 Th	0440 1.7 1102 0.1 1707 1.6 2342 0.1	28 F	0432 1.4 1017 0.4 1624 1.8 2323 0.1	13 F	0453 1.5 1004 0.6 1604 2.1 2330 -0.2	28 Sa	0432 1.4 0918 0.8 1526 2.2 2257 -0.1
	70 -24 34 24		55 -9 40 18		52 3 49 3		43 12 55 3		46 18 64 -6		43 24 67 -3
14 Tu	0327 2.2 1109 -0.6 1752 1.2 2224 0.7	29 W	0349 1.6 1049 -0.1 1711 1.4 2256 0.5	14 F	0554 1.3 1130 0.4 1741 1.8	29 Sa	0529 1.2 1039 0.6 1654 1.9	14 Sa	0614 1.2 1021 0.9 1638 2.1	29 Su	0531 1.2 0935 0.9 1558 2.2 2354 -0.1
	67 -18 37 21		49 -3 43 15		40 12 55		37 18 58		37 27 64		37 27 67 -3
15 W	0429 1.9 1150 -0.3 1823 1.3 2349 0.6	30 Th	0440 1.4 1118 0.1 1738 1.5	15 Sa	0103 -0.1 0739 1.0 1155 0.7 1822 1.9	15 Su	0043 -0.2 1719 2.1	15 Su	0043 -0.2 1719 2.1	30 M	0658 1.1 0943 1.0 1637 2.2
	58 -9 40 18		43 3 46		-3 30 21 58		-6 64		-6 64		34 30 67
		31 F	0000 0.4 0542 1.2 1147 0.3 1809 1.6							31 Tu	0103 -0.1 1727 2.2
			12 37 9 49								-3 67

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

St. Petersburg, Florida, 2020

Times and Heights of High and Low Waters

April				May				June																										
Time	Height			Time	Height			Time	Height			Time	Height																					
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 W	0224	-0.2	-6		16 Th	0359	-0.1	-3		1 F	0303	-0.2	-6		16 Sa	0348	0.2	6		1 M	0358	0.4	12		16 Tu	0354	0.9	27						
	1835	2.1	64			1212	1.6	49			1113	1.6	49			1104	1.8	55			1030	2.0	61			1024	2.1	64		1742	0.4	12		
2 Th	0341	-0.2	-6		17 F	0451	0.0	0		2 Sa	0401	-0.1	-3		17 Su	0430	0.4	12		2 Tu	0438	0.7	21		17 W	0009	1.4	43		17 Th	0426	1.1	34	
	2009	2.1	64			1218	1.6	49			1555	1.2	37			1120	1.9	58			1057	2.2	67			1048	2.3	70			1825	0.1	3	
3 F	0444	-0.3	-9		18 Sa	0533	0.1	3		3 Su	0451	0.0	0		18 M	0504	0.6	18		3 W	0025	1.6	49		18 Th	0116	1.5	46		18 Th	0454	1.2	37	
	1236	1.5	46			1231	1.7	52			1137	1.8	55			1135	2.0	61			0512	0.9	27			0454	1.2	37			1113	2.4	73	
4 Sa	0536	-0.3	-9		19 Su	0606	0.2	6		4 M	0533	0.2	6		19 Tu	0017	1.6	49		4 Th	0138	1.6	49		19 F	0216	1.5	46		19 F	0518	1.3	40	
	1245	1.5	46			1243	1.8	55			1155	1.9	58			0534	0.7	21			0541	1.1	34			0518	1.3	40			1148	2.3	70	
5 Su	1705	1.1	34		20 M	1830	0.7	21		5 Tu	1803	0.4	12		20 W	1150	2.1	64		5 F	1155	2.6	79		20 Sa	0310	1.4	43		20 Sa	1213	2.6	79	
	2302	2.2	67			0627	1.8	55			1854	0.1	3			1923	0.0	0			1941	-0.4	-12			1228	2.8	85			2024	-0.3	-9	
6 M	0620	-0.3	-9		21 Tu	0634	0.3	9		6 W	0012	1.9	58		21 Th	0111	1.6	49		6 Sa	0247	1.5	46		21 Su	0400	1.4	43		21 Su	0601	1.3	40	
	1259	1.6	49			0656	0.5	15			0608	0.4	12			0201	1.5	46			0626	1.3	40			0354	1.4	43			0601	1.3	40	
7 Tu	1803	0.7	21		22 W	1253	1.9	58		7 Th	0117	1.8	55		22 F	0618	1.1	34		7 Su	1343	2.8	85		22 M	1329	2.8	85		22 M	2146	-0.4	-12	
	1855	0.4	12			1303	2.0	61			0639	0.7	21			1222	2.4	73			2202	-0.5	-15			2146	-0.4	-12			1329	2.8	85	
8 W	0108	2.1	64		23 Th	1938	0.2	6		8 F	0117	1.8	55		23 Sa	0201	1.5	46		8 M	1424	2.7	82		23 Tu	1414	2.8	85		23 Tu	2231	-0.4	-12	
	0730	0.1	3			0732	0.8	24			1238	2.3	70			0651	1.2	37			2249	-0.4	-12			1414	2.8	85			2231	-0.4	-12	
9 Th	1332	1.9	58		24 F	2010	0.0	0		9 Sa	0220	1.7	52		24 Su	0333	1.4	43		9 Tu	1508	2.6	79		24 W	1503	2.7	82		24 W	2316	-0.3	-9	
	1944	0.1	3			0715	0.7	21			1405	2.7	82			0423	1.4	43			2335	-0.2	-6			1503	2.7	82			2316	-0.3	-9	
10 F	0206	2.0	61		25 Sa	0313	2.1	64		10 Su	0705	0.9	27		25 M	0521	1.4	43		10 W	1558	2.4	73		25 Th	0641	1.5	46		25 Th	0921	1.4	43	
	0759	0.4	12			1313	2.1	64			1342	2.5	76			0725	1.3	40			1558	2.6	79			0921	1.4	43			1558	2.6	79	
11 Sa	1352	2.1	64		26 Su	2010	0.0	0		11 M	1303	2.5	76		26 Tu	1243	2.5	76		11 Th	0022	-0.1	-3		26 F	0003	-0.2	-6		26 F	0714	1.5	46	
	2034	-0.2	-6			0748	1.0	30			2032	-0.2	-6			0635	1.2	37			0824	1.5	46			0003	-0.2	-6			0714	1.5	46	
12 Su	0303	1.8	55		27 M	1217	-0.2	-6		12 Tu	0220	1.7	52		27 W	1243	2.5	76		12 F	0847	1.6	49		27 Sa	1053	1.3	40		27 Sa	1234	1.2	37	
	0824	0.7	21			1348	2.4	73			2032	-0.2	-6			1243	2.5	76			1810	1.9	58			1053	1.3	40			1234	1.2	37	
13 M	1415	2.3	70		28 Th	2117	-0.2	-6		13 W	0322	1.6	49		28 Th	1554	2.6	79		13 Sa	0153	0.3	9		28 Su	0135	0.3	9		28 Su	1820	2.0	61	
	2125	-0.3	-9			0748	1.0	30			0322	1.6	49			1554	2.6	79			0912	1.7	52			0135	0.3	9			1820	2.0	61	
14 Tu	0824	0.9	27		29 F	0313	1.5	46		14 Th	0726	1.1	34		29 F	0125	-0.2	-6		14 Su	0236	0.5	15		29 M	0219	0.6	18		29 M	0853	2.1	64	
	1443	2.4	73			1348	2.4	73			0726	1.1	34			0921	1.5	46			0936	1.9	58			0219	0.6	18			0853	2.1	64	
15 W	2218	-0.4	-12		30 Sa	2117	-0.2	-6		15 F	1332	2.7	82		30 Sa	1815	2.2	67		15 M	1552	0.9	27		30 Tu	1540	0.6	18		30 Tu	1540	0.6	18	
	0404	1.6	49			2117	-0.2	-6			1332	2.7	82			0942	1.7	52			2123	1.5	46			1540	0.6	18			1540	0.6	18	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to mean lower low water which is the chart datum of soundings.

St. Petersburg, Florida, 2020

Times and Heights of High and Low Waters

July					August					September																			
Time		Height			Time		Height			Time		Height			Time		Height												
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm										
1 W	0338	1.1	34		16 Th	0011	1.4	43		1 Sa	1123	2.8	85		16 Su	0203	1.7	52		1 Tu	0226	1.8	55		16 W	0140	1.9	58	
	1007	2.5	76			0316	1.3	40			1934	-0.2	-6			0425	1.6	49			0645	1.3	40			0627	1.2	37	
	1755	0.0	0			0950	2.4	73								1101	2.7	82			1306	2.7	82			1247	2.8	85	
2 Th	0058	1.5	46		17 F	0129	1.5	46		2 Su	0309	1.6	49		17 M	0227	1.7	52		2 W	0238	1.8	55		17 Th	0157	2.0	61	
	0412	1.3	40			0353	1.4	43			0523	1.5	46			0523	1.5	46			0726	1.2	37			0716	0.9	27	
	1047	2.7	82			1032	2.5	76			1213	2.8	85			1155	2.8	85			1345	2.6	79			1340	2.8	85	
3 F	0217	1.5	46		18 Sa	0229	1.5	46		3 M	0330	1.6	49		18 Tu	0247	1.7	52		3 Th	0247	1.9	58		18 F	0216	2.1	64	
	0444	1.4	43			0431	1.4	43			0618	1.4	43			0615	1.4	43			0805	1.0	30			0806	0.7	21	
	1129	2.8	85			1115	2.6	79			1259	2.8	85			1246	2.9	88			1422	2.5	76			1433	2.7	82	
4 Sa	1211	2.8	85		19 Su	1159	2.7	82		4 Tu	0346	1.6	49		19 W	0304	1.7	52		4 F	0259	2.0	61		19 Sa	0237	2.3	70	
	2026	-0.4	-12			2011	-0.3	-9			0708	1.4	43			0707	1.3	40			0844	0.9	27			0858	0.4	12	
											1341	2.7	82			1336	2.9	88			1500	2.4	73			1530	2.5	76	
5 Su	1254	2.8	85		20 M	0345	1.5	46		5 W	0400	1.6	49		20 Th	0323	1.7	52		5 Sa	0314	2.1	64		20 Su	0302	2.4	73	
	2108	-0.4	-12			0555	1.4	43			0757	1.3	40			0800	1.1	34			0925	0.8	24			0953	0.3	9	
						1244	2.8	85			1421	2.6	79			1426	2.9	88			1540	2.2	67			1632	2.2	67	
6 M	1337	2.8	85		21 Tu	0410	1.5	46		6 Th	0414	1.7	52		21 F	0343	1.8	55		6 Su	0334	2.3	70		21 M	0332	2.6	79	
	2147	-0.3	-9			0645	1.4	43			0847	1.2	37			0856	0.9	27			1009	0.7	21			1055	0.2	6	
						1330	2.9	88			1502	2.5	76			1520	2.7	82			1626	2.1	64			1747	1.9	58	
7 Tu	0516	1.4	43		22 W	0433	1.5	46		7 F	0431	1.8	55		22 Sa	0407	2.0	61		7 M	0400	2.3	70		22 Tu	0408	2.7	82	
	0731	1.3	40			0740	1.3	40			0938	1.1	34			0956	0.8	24			1059	0.6	18			1205	0.3	9	
	1420	2.7	82			1419	2.9	88			1546	2.3	70			1618	2.4	73			1720	1.9	58			1938	1.7	52	
8 W	0538	1.5	46		23 Th	0456	1.5	46		8 Sa	0452	1.9	58		23 Su	0436	2.2	67		8 Tu	0430	2.4	73		23 W	0453	2.7	82	
	0831	1.3	40			0842	1.2	37			1033	1.0	30			1103	0.6	18			1156	0.6	18			1327	0.3	9	
	1505	2.5	76			1511	2.8	85			1634	2.1	64			1725	2.1	64			1831	1.7	52						
9 Th	0601	1.5	46		24 F	0521	1.6	49		9 Su	0518	2.0	61		24 M	0510	2.3	70		9 W	0508	2.4	73		24 Th	0552	2.6	79	
	0938	1.3	40			0950	1.1	34			1133	0.9	27			1218	0.5	15			1306	0.6	18			1455	0.3	9	
	1552	2.4	73			1608	2.5	76			1731	1.9	58			1852	1.8	55			2021	1.6	49						
10 F	0626	1.6	49		25 Sa	0551	1.8	55		10 M	0549	2.1	64		25 Tu	0552	2.5	76		10 Th	0556	2.4	73		25 F	0720	2.5	76	
	1052	1.3	40			1106	1.0	30			1241	0.8	24			1344	0.5	15			1428	0.6	18			1612	0.3	9	
	1645	2.1	64			1712	2.2	67			1842	1.7	52			2059	1.6	49											
11 Sa	0010	0.3	9		26 Su	0006	0.5	15		11 Tu	0009	1.1	34		26 W	0008	1.5	46		11 F	0700	2.4	73		26 Sa	0030	1.9	58	
	0654	1.7	52			0624	1.9	58			0625	2.2	67			0644	2.5	76			1548	0.5	15			0247	1.8	55	
	1212	1.2	37			1230	0.9	27			1356	0.7	21			1513	0.3	9			0908	2.4	73			0908	2.4	73	
12 Su	0046	0.5	15		27 M	0043	0.8	24		12 W	0042	1.3	40		27 Th	0752	2.6	79		12 Sa	0822	2.5	76		27 Su	0040	1.9	58	
	0725	1.9	58			0702	2.1	64			0708	2.3	70			1634	0.2	6			1655	0.3	9			0426	1.6	49	
	1335	1.0	30			1359	0.7	21			1515	0.6	18													1033	2.4	73	
13 M	0123	0.8	24		28 Tu	0119	1.1	34		13 Th	0118	1.4	43		28 F	0912	2.6	79		13 Su	0047	1.8	55		28 M	0056	1.9	58	
	0758	2.0	61			0746	2.3	70			0801	2.4	73			1740	0.1	3			0326	1.7	52			0528	1.4	43	
	1455	0.8	24			1527	0.4	12			1627	0.4	12								0944	2.6	79			1135	2.5	76	
14 Tu	0200	1.0	30		29 W	0156	1.3	40		14 F	0901	2.4	73		29 Sa	0135	1.8	55		14 M	0106	1.8	55		29 Tu	0110	2.0	61	
	0833	2.1	64			0836	2.5	76			1729	0.3	9			0344	1.7	52			0439	1.6	49			0614	1.2	37	
	1606	0.6	18			1645	0.2	6								1029	2.6	79			1054	2.7	82			1225	2.5	76	
15 W	0238	1.2	37		30 Th	0018	1.5	46		15 Sa	1003	2.6	79		30 Su	0155	1.8	55		15 Tu	0124	1.9	58		30 W	0123	2.0	61	
	0911	2.2	67			0235	1.4	43			1822	0.1	3			0501	1.6	49			0536	1.4	43			0653	1.0	30	
	1706	0.4	12			0931	2.6	79								1131	2.7	82			1153	2.8	85			1308	2.4	73	
				31 F	1028	2.7	82						31 M	0212	1.8	55						31 W	0123	2.0	61				
					1846	-0.1	-3							0558	1.5	46		1914	0.2	6			0653	1.0	30				
														1223	2.7	82							1308	2.4	73				
												1947	0.2	6						1930	0.7	21							

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

St. Petersburg, Florida, 2020

Times and Heights of High and Low Waters

October				November				December			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>
1 Th	0132 2.1 64 0727 0.8 24 1346 2.3 70 1951 0.8 24	16 F	0056 2.3 70 0716 0.4 12 1346 2.4 73 1935 0.9 27	1 Su	0100 2.5 76 0822 0.0 0 1509 1.8 55 1931 1.3 40	16 M	0101 2.7 82 0851 -0.6 -18 1609 1.6 49 1925 1.4 43	1 Tu	0046 2.4 73 0849 -0.4 -12 1613 1.4 43 1857 1.3 40	16 W	0120 2.6 79 0936 -0.8 -24
2 F	0142 2.2 67 0801 0.6 18 1423 2.3 70 2010 1.0 30	17 Sa	0117 2.4 73 0804 0.1 3 1444 2.3 70 2001 1.2 37	2 M	0120 2.5 76 0856 0.0 0 1550 1.7 52 1947 1.4 43	17 Tu	0136 2.8 85 0943 -0.6 -18 1725 1.5 46 1941 1.4 43	2 W	0118 2.5 76 0927 -0.5 -15 1700 1.3 40 1920 1.2 37	17 Th	0204 2.5 76 1023 -0.7 -21
3 Sa	0154 2.3 70 0834 0.5 15 1500 2.1 64 2028 1.1 34	18 Su	0142 2.6 79 0854 -0.1 -3 1545 2.1 64 2025 1.4 43	3 Tu	0146 2.6 79 0934 -0.1 -3 1638 1.6 49 2005 1.4 43	18 W	0215 2.8 85 1037 -0.5 -15	3 Th	0155 2.5 76 1010 -0.4 -12	18 F	0250 2.3 70 1109 -0.5 -15 1857 1.2 37 2116 1.1 34
4 Su	0210 2.4 73 0909 0.4 12 1540 2.0 61 2046 1.3 40	19 M	0211 2.8 85 0948 -0.2 -6 1654 1.9 58 2044 1.5 46	4 W	0217 2.6 79 1018 -0.1 -3 1738 1.6 49 2023 1.5 46	19 Th	0258 2.6 79 1135 -0.3 -9	4 F	0238 2.4 73 1058 -0.4 -12	19 Sa	0342 2.1 64 1154 -0.3 -9 1929 1.3 40 2251 1.1 34
5 M	0232 2.5 76 0948 0.3 9 1625 1.9 58 2105 1.4 43	20 Tu	0244 2.8 85 1046 -0.1 -3 1826 1.7 52 2055 1.6 49	5 Th	0254 2.6 79 1110 0.0 0	20 F	0349 2.4 73 1236 -0.1 -3	5 Sa	0327 2.3 70 1151 -0.3 -9 1942 1.3 40 2206 1.2 37	20 Su	0442 1.8 55 1239 -0.1 -3 2000 1.4 43
6 Tu	0259 2.6 79 1033 0.3 9 1721 1.8 55 2125 1.5 46	21 W	0323 2.8 85 1152 0.0 0	6 F	0338 2.5 76 1211 0.0 0	21 Sa	0453 2.1 64 1337 0.0 0 2152 1.6 49	6 Su	0427 2.1 64 1246 -0.2 -6 2020 1.4 43	21 M	0038 1.0 30 0559 1.5 46 1323 0.1 3 2029 1.5 46
7 W	0332 2.6 79 1126 0.3 9 1839 1.7 52 2143 1.6 49	22 Th	0411 2.6 79 1306 0.1 3	7 Sa	0434 2.4 73 1320 0.1 3	22 Su	0105 1.5 46 0628 1.9 58 1434 0.2 6 2207 1.7 52	7 M	0002 1.2 37 0544 1.9 58 1341 -0.1 -3 2051 1.5 46	22 Tu	0219 0.8 24 0740 1.3 40 1407 0.3 9 2058 1.6 49
8 Th	0411 2.5 76 1233 0.4 12	23 F	0514 2.4 73 1423 0.2 6	8 Su	0551 2.2 67 1427 0.1 3 2216 1.7 52	23 M	0305 1.2 37 0824 1.7 52 1523 0.3 9 2227 1.8 55	8 Tu	0154 1.0 30 0722 1.7 52 1434 0.1 3 2120 1.7 52	23 W	0338 0.5 15 0928 1.2 37 1450 0.5 15 2127 1.7 52
9 F	0503 2.5 76 1351 0.4 12	24 Sa	0655 2.2 67 1532 0.3 9 2324 1.8 55	9 M	0202 1.5 46 0733 2.1 64 1526 0.2 6 2236 1.8 55	24 Tu	0419 0.9 27 1000 1.6 49 1606 0.5 15 2246 1.9 58	9 W	0322 0.7 21 0908 1.5 46 1522 0.3 9 2149 1.9 58	24 Th	0438 0.2 6 1102 1.1 34 1531 0.7 21 2155 1.8 55
10 Sa	0615 2.4 73 1509 0.3 9 2333 1.8 55	25 Su	0319 1.6 49 0856 2.1 64 1626 0.4 12 2338 1.9 58	10 Tu	0335 1.2 37 0915 2.0 61 1618 0.3 9 2256 1.9 58	25 W	0511 0.6 18 1114 1.6 49 1643 0.7 21 2305 2.0 61	10 Th	0431 0.3 9 1043 1.5 46 1606 0.6 18 2219 2.1 64	25 F	0527 -0.1 -3 1220 1.2 37 1609 0.9 27 2222 1.9 58
11 Su	0152 1.7 52 0753 2.3 70 1614 0.3 9 2345 1.9 58	26 M	0437 1.3 40 1023 2.1 64 1709 0.5 15 2354 2.0 61	11 W	0441 0.9 27 1040 2.0 61 1702 0.4 12 2317 2.1 64	26 Th	0553 0.3 9 1216 1.6 49 1715 0.8 24 2322 2.1 64	11 F	0530 -0.1 -3 1207 1.5 46 1644 0.8 24 2250 2.3 70	26 Sa	0611 -0.3 -9 1325 1.2 37 1643 1.0 30 2251 2.0 61
12 M	0337 1.6 49 0929 2.4 73 1707 0.3 9	27 Tu	0529 1.1 34 1128 2.1 64 1744 0.6 18	12 Th	0535 0.5 15 1152 2.0 61 1740 0.7 21 2339 2.2 67	27 F	0631 0.1 3 1311 1.6 49 1741 1.0 30 2339 2.2 67	12 Sa	0623 -0.5 -15 1321 1.4 43 1718 1.0 30 2323 2.4 73	27 Su	0650 -0.5 -15 1420 1.2 37 1712 1.1 34 2321 2.1 64
13 Tu	0002 1.9 58 0445 1.4 43 1046 2.5 76 1751 0.3 9	28 W	0009 2.1 64 0610 0.8 24 1221 2.1 64 1813 0.8 24	13 F	0625 0.1 3 1257 2.0 61 1813 0.9 27	28 Sa	0706 -0.1 -3 1400 1.5 46 1803 1.1 34 2357 2.3 70	13 Su	0713 -0.7 -21 1429 1.4 43 1747 1.1 34 2359 2.6 79	28 M	0728 -0.6 -18 1508 1.2 37 1738 1.1 34 2354 2.2 67
14 W	0019 2.0 61 0539 1.0 30 1150 2.5 76 1830 0.4 12	29 Th	0021 2.2 67 0646 0.5 15 1307 2.0 61 1837 0.9 27	14 Sa	0003 2.4 73 0714 -0.2 -6 1400 1.9 58 1841 1.1 34	29 Su	0739 -0.3 -9 1446 1.5 46 1821 1.2 37	14 M	0802 -0.9 -27 1533 1.3 40 1814 1.2 37	29 Tu	0805 -0.7 -21 1547 1.2 37 1806 1.1 34
15 Th	0037 2.1 64 0628 0.7 21 1249 2.5 76 1904 0.6 18	30 F	0033 2.2 67 0719 0.3 9 1350 2.0 61 1857 1.1 34	15 Su	0031 2.6 79 0802 -0.5 -15 1503 1.8 55 1905 1.3 40	30 M	0019 2.4 73 0813 -0.4 -12 1530 1.4 43 1838 1.3 40	15 Tu	0038 2.6 79 0849 -0.9 -27 1634 1.3 40 1841 1.2 37	30 W	0030 2.3 70 0842 -0.7 -21 1620 1.2 37 1839 1.1 34
		31 Sa	0045 2.3 70 0751 0.2 6 1430 1.9 58 1915 1.2 37						31 Th	0109 2.3 70 0920 -0.7 -21 1648 1.1 34 1921 1.0 30	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Cedar Key, Florida, 2020

Times and Heights of High and Low Waters

January				February				March																					
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 W	0451	2.8	85		16 Th	0529	3.0	91		1 Sa	0022	0.5	15		16 Su	0133	0.0	0		1 Su	0554	2.4	73		16 M	0105	0.0	0	
	1134	0.1	3			1202	0.1	3			0618	2.3	70			0805	2.1	64			1125	0.9	27			0750	2.2	67	
	1805	2.7	82			1815	2.9	88			1204	0.7	21			1302	1.3	40			1729	3.3	101			1228	1.6	49		1824	3.3	101
2 Th	0007	0.9	27		17 F	0042	0.4	12		2 Su	0127	0.4	12		17 M	0300	-0.1	-3		2 M	0039	0.2	6		17 Tu	0227	0.1	3	
	0546	2.5	76			0641	2.6	79			0738	2.0	61			0957	2.0	61			0703	2.2	67			0936	2.2	67	
	1213	0.4	12			1250	0.5	15			1253	1.0	30			1415	1.5	46			1208	1.2	37			1345	1.8	55	
3 F	0110	0.9	27		18 Sa	0200	0.2	6		3 M	0246	0.2	6		18 Tu	0423	-0.2	-6		3 Tu	0153	0.2	6		18 W	0353	0.2	6	
	0656	2.2	67			0815	2.2	67			0922	1.9	58			1128	2.2	67			0842	2.1	64			1058	2.3	70	
	1301	0.7	21			1349	1.0	30			1406	1.3	40			1539	1.6	49			1315	1.5	46			1520	1.7	52	
4 Sa	0227	0.7	21		19 Su	0324	-0.1	-3		4 Tu	0401	-0.1	-3		19 W	0530	-0.4	-12		4 W	0317	0.0	0		19 Th	0503	0.1	3	
	0830	2.1	64			1002	2.2	67			1053	2.1	64			1223	2.4	73			1020	2.2	67			1148	2.6	79	
	1404	1.0	30			1458	1.3	40			1528	1.4	43			1653	1.5	46			1451	1.6	49			1640	1.5	46	
5 Su	0342	0.4	12		20 M	0440	-0.4	-12		5 W	0506	-0.4	-12		20 Th	0621	-0.5	-15		5 Th	0431	-0.2	-6		20 F	0555	0.0	0	
	1005	2.1	64			1130	2.3	70			1201	2.3	70			1300	2.6	79			1129	2.5	76			1223	2.8	85	
	1513	1.2	37			1607	1.4	43			1639	1.4	43			1754	1.2	37			1613	1.5	46			1741	1.2	37	
6 M	0445	0.0	0		21 Tu	0543	-0.7	-21		6 Th	0601	-0.8	-24		21 F	0702	-0.6	-18		6 F	0532	-0.5	-15		21 Sa	0635	0.0	0	
	1122	2.3	70			1233	2.5	76			1251	2.6	79			1331	2.7	82			1219	2.7	82			1252	2.9	88	
	1617	1.3	40			1710	1.4	43			1741	1.3	40			1843	1.0	30			1720	1.3	40			1828	0.9	27	
7 Tu	0539	-0.4	-12		22 W	0634	-0.9	-27		7 F	0650	-1.0	-30		22 Sa	0030	3.4	104		7 Sa	0625	-0.7	-21		22 Su	0024	3.4	104	
	1222	2.5	76			1318	2.6	79			1332	2.7	82			0736	-0.6	-18			1258	2.9	88			0708	0.0	0	
	1715	1.3	40			1806	1.3	40			1834	1.1	34			1358	2.8	85			1816	1.0	30			1318	3.1	94	
8 W	0627	-0.8	-24		23 Th	0717	-1.0	-30		8 Sa	0015	3.8	116		23 Su	0112	3.4	104		8 Su	0006	3.9	119		23 M	0105	3.4	104	
	1310	2.7	82			1354	2.7	82			1408	2.9	88			0806	-0.5	-15			0711	-0.8	-24			0737	0.1	3	
	1807	1.3	40			1854	1.1	34			1922	0.9	27			1423	2.9	88			1332	3.1	94			1342	3.2	98	
9 Th	0710	-1.1	-34		24 F	0034	3.5	107		9 Su	0105	3.9	119		24 M	0150	3.4	104		9 M	0101	4.0	122		24 Tu	0142	3.4	104	
	1352	2.8	85			0754	-1.0	-30			0815	-1.2	-37			0834	-0.4	-12			0753	-0.8	-24			0804	0.2	6	
	1854	1.2	37			1426	2.8	85			1442	2.9	88			1447	3.0	91			1404	3.2	98			1404	3.3	101	
10 F	0028	3.7	113		25 Sa	0116	3.5	107		10 M	0154	4.0	122		25 Tu	0225	3.4	104		10 Tu	0152	4.1	125		25 W	0217	3.4	104	
	0751	-1.2	-37			0828	-0.9	-27			0856	-1.1	-34			0901	-0.2	-6			0832	-0.6	-18			0831	0.4	12	
	1432	2.9	88			1456	2.8	85			1515	3.0	91			1510	3.0	91			1434	3.3	101			1426	3.4	104	
11 Sa	0112	3.8	116		26 Su	0155	3.5	107		11 Tu	0243	3.9	119		26 W	0301	3.3	101		11 W	0242	3.9	119		26 Th	0252	3.3	101	
	0832	-1.3	-40			0859	-0.8	-24			0935	-0.9	-27			0928	0.0	0			0911	-0.3	-9			0857	0.5	15	
	1510	2.9	88			1524	2.8	85			1547	3.0	91			1532	3.1	94			1505	3.4	104			1448	3.4	104	
12 Su	0157	3.9	119		27 M	0233	3.4	104		12 W	0334	3.7	113		27 Th	0338	3.1	94		12 Th	0333	3.7	113		27 F	0328	3.2	98	
	0913	-1.3	-40			0928	-0.6	-18			1014	-0.5	-15			0955	0.1	3			0948	0.1	3			0924	0.7	21	
	1547	2.9	88			1550	2.8	85			1619	3.1	94			1556	3.2	98			1537	3.5	107			1511	3.5	107	
13 M	0243	3.8	116		28 Tu	0311	3.2	98		13 Th	0429	3.3	101		28 F	0418	2.9	88		13 F	0427	3.3	101		28 Sa	0407	3.1	94	
	0954	-1.1	-34			0957	-0.4	-12			1052	-0.1	-3			1022	0.4	12			1024	0.5	15			0952	0.9	27	
	1623	2.9	88			1617	2.9	88			1653	3.2	98			1623	3.2	98			1611	3.6	110			1538	3.6	110	
14 Tu	0333	3.7	113		29 W	0350	3.0	91		14 F	0527	2.9	88		29 Sa	0502	2.7	82		14 Sa	0524	2.9	88		29 Su	0451	2.9	88	
	1036	-0.8	-24			1026	-0.2	-6			1131	0.4	12			1052	0.6	18			1100	0.9	27			1023	1.1	34	
	1659	2.9	88			1643	2.9	88			1730	3.2	98			1653	3.3	101			1648	3.6	110			1610	3.6	110	
15 W	0428	3.4	104		30 Th	0433	2.8	85		15 Sa	0021	0.0	0		15 Su	0627	2.5	76		15 Su	0627	2.5	76		30 M	0541	2.7	82	
	1118	-0.4	-12			1056	0.1	3			0634	2.5	76			1139	1.3	40			1139	1.3	40			1059	1.3	40	
	1735	2.9	88			1712	2.9	88			1212	0.9	27			1731	3.5	107			1731	3.5	107			1649	3.6	110	
31 F	0520	2.6	79		31 F	0520	2.6	79		31 F	0520	2.6	79																

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Cedar Key, Florida, 2020

Times and Heights of High and Low Waters

July				August				September			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
<small>h m</small>	<small>ft</small>	<small>h m</small>	<small>ft</small>	<small>h m</small>	<small>ft</small>	<small>h m</small>	<small>ft</small>	<small>h m</small>	<small>ft</small>	<small>h m</small>	<small>ft</small>
1 W	0355 1.6 49 0954 4.1 125 1710 0.0 0 2343 3.2 98	16 Th	0339 1.9 58 0942 3.9 119 1710 0.4 12 2348 3.0 91	1 Sa	0044 3.2 98 0525 2.1 64 1114 4.3 131 1852 -0.1 -3	16 Su	0019 3.2 98 0506 2.1 64 1054 4.2 128 1825 0.1 3	1 Tu	0137 3.5 107 0704 1.5 46 1257 4.2 128 1953 0.5 15	16 W	0106 3.6 110 0642 1.3 40 1240 4.5 137 1930 0.2 6
2 Th	0451 1.7 52 1042 4.2 128 1808 -0.3 -9	17 F	0436 2.0 61 1030 4.0 122 1802 0.2 6	2 Su	0130 3.3 101 0622 1.9 58 1208 4.3 131 1936 -0.1 -3	17 M	0106 3.3 101 0605 2.0 61 1150 4.3 131 1912 0.0 0	2 W	0205 3.6 110 0746 1.3 40 1340 4.2 128 2024 0.6 18	17 Th	0139 3.7 113 0730 1.0 30 1333 4.6 140 2011 0.3 9
3 F	0046 3.3 101 0544 1.8 55 1129 4.3 131 1900 -0.4 -12	18 Sa	0044 3.1 94 0531 2.0 61 1116 4.1 125 1849 0.0 0	3 M	0208 3.4 104 0713 1.8 55 1257 4.3 131 2015 0.0 0	18 Tu	0145 3.4 104 0658 1.8 55 1244 4.5 137 1956 -0.1 -3	3 Th	0231 3.7 113 0824 1.2 37 1419 4.1 125 2052 0.7 21	18 F	0211 3.9 119 0817 0.6 18 1424 4.6 140 2051 0.5 15
4 Sa	0139 3.3 101 0636 1.9 58 1216 4.4 134 1947 -0.5 -15	19 Su	0132 3.2 98 0624 2.0 61 1203 4.2 128 1933 -0.2 -6	4 Tu	0242 3.4 104 0758 1.7 52 1342 4.2 128 2050 0.2 6	19 W	0221 3.5 107 0746 1.5 46 1335 4.6 140 2037 -0.1 -3	4 F	0255 3.7 113 0900 1.0 30 1457 4.0 122 2120 0.9 27	19 Sa	0242 4.0 122 0904 0.3 9 1516 4.4 134 2129 0.8 24
5 Su	0226 3.3 101 0724 1.9 58 1301 4.4 134 2030 -0.4 -12	20 M	0214 3.3 101 0713 2.0 61 1250 4.3 131 2015 -0.3 -9	5 W	0313 3.5 107 0841 1.5 46 1425 4.1 125 2123 0.3 9	20 Th	0254 3.6 110 0833 1.3 40 1426 4.6 140 2117 0.1 3	5 Sa	0320 3.8 116 0936 0.9 27 1536 3.9 119 2148 1.0 30	20 Su	0314 4.2 128 0951 0.2 6 1610 4.1 125 2207 1.2 37
6 M	0308 3.3 101 0810 1.8 55 1346 4.3 131 2110 -0.2 -6	21 Tu	0254 3.4 104 0800 1.8 55 1337 4.4 134 2057 -0.3 -9	6 Th	0342 3.5 107 0922 1.4 43 1507 4.0 122 2154 0.5 15	21 F	0327 3.7 113 0920 1.0 30 1518 4.4 134 2157 0.4 12	6 Su	0344 3.9 119 1012 0.9 27 1616 3.7 113 2217 1.2 37	21 M	0349 4.2 128 1041 0.1 3 1705 3.8 116 2244 1.5 46
7 Tu	0348 3.3 101 0855 1.8 55 1431 4.1 125 2148 0.0 0	22 W	0332 3.4 104 0847 1.7 52 1426 4.4 134 2139 -0.2 -6	7 F	0410 3.6 110 1002 1.3 40 1550 3.8 116 2224 0.7 21	22 Sa	0400 3.8 116 1009 0.8 24 1612 4.2 128 2236 0.7 21	7 M	0411 3.9 119 1049 0.8 24 1658 3.5 107 2247 1.4 43	22 Tu	0427 4.3 131 1134 0.2 6 1804 3.4 104 2324 1.8 55
8 W	0424 3.3 101 0941 1.7 52 1517 3.9 119 2225 0.2 6	23 Th	0409 3.5 107 0935 1.5 46 1517 4.3 131 2220 0.0 0	8 Sa	0437 3.6 110 1043 1.2 37 1634 3.7 113 2255 0.9 27	23 Su	0434 4.0 122 1101 0.6 18 1709 3.9 119 2315 1.1 34	8 Tu	0441 4.0 122 1130 0.8 24 1746 3.3 101 2320 1.6 49	23 W	0510 4.2 128 1233 0.4 12 1913 3.1 94
9 Th	0457 3.3 101 1027 1.6 49 1604 3.7 113 2300 0.5 15	24 F	0444 3.5 107 1025 1.3 40 1612 4.1 125 2302 0.3 9	9 Su	0506 3.7 113 1126 1.2 37 1722 3.4 104 2327 1.2 37	24 M	0510 4.1 125 1156 0.6 18 1811 3.5 107 2355 1.5 46	9 W	0515 4.0 122 1219 0.9 27 1844 3.1 94 2359 1.9 58	24 Th	0010 2.1 64 0600 4.0 122 1344 0.6 18 2041 2.9 88
10 F	0529 3.4 104 1114 1.5 46 1655 3.5 107 2335 0.7 21	25 Sa	0519 3.6 110 1118 1.1 34 1712 3.9 119 2344 0.6 18	10 M	0537 3.8 116 1212 1.1 34 1814 3.2 98	25 Tu	0551 4.1 125 1259 0.6 18 1924 3.2 98	10 Th	0558 3.9 119 1321 0.9 27 2002 2.9 88	25 F	0114 2.3 70 0706 3.8 116 1508 0.8 24 2207 2.9 88
11 Sa	0602 3.4 104 1204 1.4 43 1748 3.3 101	26 Su	0556 3.7 113 1216 1.0 30 1816 3.5 107	11 Tu	0002 1.4 43 0612 3.8 116 1308 1.1 34 1919 3.0 91	26 W	0041 1.9 58 0639 4.1 125 1413 0.6 18 2055 2.9 88	11 F	0054 2.1 64 0653 3.9 119 1438 0.9 27 2133 2.9 88	26 Sa	0241 2.3 70 0834 3.7 113 1625 0.8 24 2309 3.1 94
12 Su	0012 1.0 30 0637 3.5 107 1259 1.3 40 1850 3.0 91	27 M	0029 1.0 30 0637 3.8 116 1322 0.8 24 1932 3.2 98	12 W	0044 1.7 52 0655 3.8 116 1414 1.0 30 2042 2.8 85	27 Th	0140 2.1 64 0740 4.0 122 1533 0.6 18 2226 2.9 88	12 Sa	0215 2.3 70 0808 3.8 116 1554 0.7 21 2248 3.1 94	27 Su	0405 2.1 64 1003 3.7 113 1727 0.8 24 2353 3.3 101
13 M	0053 1.3 40 0718 3.5 107 1403 1.2 37 2005 2.9 88	28 Tu	0118 1.4 43 0725 3.9 119 1437 0.6 18 2102 3.0 91	13 Th	0140 2.0 61 0749 3.8 116 1526 0.8 24 2207 2.9 88	28 F	0255 2.3 70 0854 4.0 122 1647 0.5 15 2337 3.1 94	13 Su	0339 2.2 67 0929 3.9 119 1700 0.5 15 2345 3.3 101	28 M	0514 1.7 52 1114 3.8 116 1814 0.8 24
14 Tu	0143 1.5 46 0804 3.6 110 1510 1.0 30 2126 2.8 85	29 W	0217 1.8 55 0820 4.0 122 1551 0.4 12 2229 3.0 91	14 F	0251 2.1 64 0852 3.9 119 1632 0.6 18 2321 3.0 91	29 Sa	0411 2.2 67 1007 4.0 122 1749 0.4 12	14 M	0449 2.0 61 1040 4.1 125 1757 0.3 9	29 Tu	0027 3.4 104 0608 1.4 43 1210 3.9 119 1852 0.8 24
15 W	0240 1.8 55 0854 3.7 113 1613 0.7 21 2241 2.9 88	30 Th	0320 2.0 61 0920 4.1 125 1659 0.2 6 2344 3.1 94	15 Sa	0402 2.2 67 0955 4.0 122 1732 0.3 9	30 Su	0028 3.2 98 0518 2.0 61 1112 4.1 125 1838 0.3 9	15 Tu	0029 3.4 104 0549 1.7 52 1143 4.3 131 1846 0.2 6	30 W	0057 3.6 110 0652 1.1 34 1255 3.9 119 1923 0.8 24
		31 F	0424 2.1 64 1018 4.2 128 1800 0.0 0			31 M	0105 3.4 104 0616 1.8 55 1209 4.1 125 1919 0.4 12				

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Cedar Key, Florida, 2020

Times and Heights of High and Low Waters

October				November				December			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m ft cm		h m ft cm		h m ft cm		h m ft cm		h m ft cm		h m ft cm	
1 Th	0123 3.7 113 0730 0.9 27 1335 4.0 122 1952 0.9 27	16 F 0715 0.2 6 1330 4.3 131 1942 0.7 21	17 Sa 0128 4.1 125 0802 -0.2 -6 1421 4.3 131 2021 0.9 27	1 Su	0055 3.9 119 0128 3.9 119 0818 0.0 0 1439 3.5 107 2016 1.3 40	16 M	0126 4.3 131 0834 -1.0 -30 1509 3.6 110 2032 1.3 40	1 Tu	0120 3.8 116 0832 -0.6 -18 1507 3.1 94 2022 1.4 43	16 W	0144 4.1 125 0906 -1.2 -37 1545 3.0 91 2053 1.2 37
2 F	0147 3.8 116 0805 0.7 21 1411 3.9 119 2020 1.0 30	17 Sa	0128 4.1 125 0802 -0.2 -6 1421 4.3 131 2021 0.9 27	2 M	0152 3.9 119 0850 -0.1 -3 1514 3.4 104 2045 1.4 43	17 Tu	0204 4.3 131 0920 -1.0 -30 1558 3.4 104 2112 1.5 46	2 W	0150 3.8 116 0906 -0.6 -18 1544 3.0 91 2056 1.4 43	17 Th	0227 3.9 119 0947 -1.0 -30 1626 2.9 88 2136 1.2 37
3 Sa	0210 3.9 119 0838 0.5 15 1447 3.9 119 2047 1.2 37	18 Su	0200 4.2 128 0848 -0.4 -12 1513 4.1 125 2059 1.2 37	3 Tu	0218 4.0 122 0922 -0.1 -3 1551 3.3 101 2115 1.5 46	18 W	0243 4.2 128 1005 -0.8 -24 1647 3.2 98 2153 1.6 49	3 Th	0223 3.8 116 0941 -0.6 -18 1621 3.0 91 2133 1.4 43	18 F	0310 3.7 113 1028 -0.7 -21 1704 2.8 85 2222 1.1 34
4 Su	0232 3.9 119 0911 0.5 15 1523 3.7 113 2114 1.3 40	19 M	0235 4.3 131 0935 -0.5 -15 1605 3.8 116 2137 1.5 46	4 W	0246 4.0 122 0956 -0.1 -3 1630 3.2 98 2148 1.6 49	19 Th	0326 4.0 122 1051 -0.5 -15 1733 3.0 91 2239 1.6 49	4 F	0300 3.8 116 1019 -0.5 -15 1659 2.9 88 2215 1.4 43	19 Sa	0357 3.4 104 1107 -0.3 -9 1740 2.7 82 2311 1.1 34
5 M	0256 4.0 122 0944 0.4 12 1601 3.6 110 2143 1.5 46	20 Tu	0311 4.4 134 1023 -0.4 -12 1658 3.5 107 2216 1.7 52	5 Th	0319 4.0 122 1034 -0.1 -3 1713 3.1 94 2226 1.7 52	20 F	0412 3.8 116 1137 -0.1 -3 1821 2.8 85 2331 1.6 49	5 Sa	0343 3.7 113 1101 -0.4 -12 1741 2.9 88 2303 1.4 43	20 Su	0448 3.1 94 1146 0.1 3 1819 2.7 82
6 Tu	0323 4.0 122 1019 0.4 12 1641 3.5 107 2213 1.6 49	21 W	0351 4.3 131 1113 -0.1 -3 1753 3.2 98 2258 1.9 58	6 F	0358 3.9 119 1118 0.1 3 1801 3.0 91 2312 1.8 55	21 Sa	0506 3.4 104 1228 0.3 9 1914 2.7 82	6 Su	0435 3.5 107 1149 -0.2 -6 1828 2.8 85	21 M	0007 1.1 34 0545 2.7 82 1228 0.5 15 1902 2.7 82
7 W	0353 4.1 125 1057 0.4 12 1726 3.3 101 2247 1.8 55	22 Th	0436 4.1 125 1206 0.2 6 1853 3.0 91 2348 2.0 61	7 Sa	0447 3.7 113 1210 0.2 6 1900 2.9 88	22 Su	0035 1.6 49 0611 3.0 91 1326 0.7 21 2015 2.7 82	7 M	0003 1.3 40 0538 3.2 98 1244 0.1 3 1922 2.8 85	22 Tu	0114 1.0 30 0657 2.4 73 1319 0.8 24 1953 2.7 82
8 Th	0429 4.0 122 1142 0.5 15 1820 3.1 94 2329 1.9 58	23 F	0529 3.8 116 1309 0.5 15 2006 2.8 85	8 Su	0013 1.8 55 0548 3.5 107 1316 0.4 12 2010 2.9 88	23 M	0157 1.5 46 0739 2.7 82 1435 1.0 30 2114 2.8 85	8 Tu	0117 1.2 37 0658 2.9 88 1350 0.4 12 2022 2.9 88	23 W	0234 0.8 24 0833 2.2 67 1421 1.1 34 2049 2.8 85
9 F	0514 3.9 119 1239 0.6 18 1929 3.0 91	24 Sa	0055 2.1 64 0637 3.4 104 1425 0.8 24 2122 2.8 85	9 M	0135 1.8 55 0712 3.3 101 1433 0.5 15 2118 3.0 91	24 Tu	0324 1.3 40 0923 2.6 79 1541 1.1 34 2203 3.0 91	9 W	0241 0.9 27 0837 2.8 85 1500 0.6 18 2118 3.1 94	24 Th	0351 0.5 15 1008 2.2 67 1527 1.2 37 2140 2.9 88
10 Sa	0027 2.1 64 0612 3.8 116 1354 0.7 21 2055 2.9 88	25 Su	0225 2.0 61 0813 3.2 98 1543 1.0 30 2220 3.0 91	10 Tu	0302 1.5 46 0852 3.3 101 1544 0.6 18 2212 3.2 98	25 W	0434 0.9 27 1044 2.7 82 1637 1.2 37 2245 3.2 98	10 Th	0357 0.4 12 1011 2.8 85 1605 0.8 24 2209 3.3 101	25 F	0454 0.2 6 1123 2.3 70 1626 1.3 40 2226 3.1 94
11 Su	0152 2.2 67 0734 3.6 110 1514 0.7 21 2207 3.1 94	26 M	0353 1.7 52 0952 3.2 98 1645 1.0 30 2304 3.2 98	11 W	0415 1.0 30 1019 3.4 104 1646 0.6 18 2256 3.4 104	26 Th	0528 0.5 15 1146 2.9 88 1723 1.2 37 2320 3.3 101	11 F	0502 -0.1 -3 1128 3.0 91 1703 1.0 30 2254 3.6 110	26 Sa	0545 -0.2 -6 1220 2.5 76 1718 1.3 40 2307 3.2 98
12 M	0321 2.0 61 0909 3.7 113 1624 0.6 18 2301 3.3 101	27 Tu	0501 1.3 40 1106 3.3 101 1734 1.0 30 2340 3.4 104	12 Th	0517 0.5 15 1131 3.6 110 1740 0.7 21 2336 3.7 113	27 F	0613 0.1 3 1235 3.0 91 1804 1.2 37 2353 3.5 107	12 Sa	0559 -0.7 -21 1233 3.1 94 1756 1.1 34 2338 3.8 116	27 Su	0628 -0.5 -15 1306 2.7 82 1805 1.3 40 2345 3.4 104
13 Tu	0433 1.6 49 1029 3.9 119 1724 0.5 15 2344 3.5 107	28 W	0552 0.9 27 1202 3.4 104 1813 1.1 34	13 F	0612 -0.1 -3 1233 3.8 116 1828 0.8 24	28 Sa	0651 -0.2 -6 1317 3.1 94 1841 1.3 40	13 Su	0651 -1.1 -34 1328 3.2 98 1844 1.2 37	28 M	0707 -0.7 -21 1346 2.8 85 1847 1.3 40
14 W	0533 1.2 37 1136 4.1 125 1815 0.5 15	29 Th	0011 3.5 107 0635 0.6 18 1247 3.5 107 1847 1.1 34	14 Sa	0013 3.9 119 0702 -0.5 -15 1328 3.8 116 1912 1.0 30	29 Su	0022 3.6 110 0726 -0.4 -12 1355 3.1 94 1915 1.3 40	14 M	0021 4.0 122 0738 -1.3 -40 1417 3.2 98 1929 1.2 37	29 Tu	0022 3.5 107 0742 -0.9 -27 1422 2.8 85 1927 1.3 40
15 Th	0021 3.7 113 0626 0.7 21 1236 4.3 131 1901 0.5 15	30 F	0038 3.7 113 0712 0.3 9 1327 3.6 110 1917 1.2 37	15 Su	0050 4.1 125 0749 -0.9 -27 1419 3.8 116 1953 1.2 37	30 M	0051 3.7 113 0800 -0.5 -15 1432 3.1 94 1949 1.4 43	15 Tu	0103 4.1 125 0823 -1.3 -40 1502 3.1 94 2011 1.2 37	30 W	0058 3.6 110 0817 -1.0 -30 1457 2.8 85 2005 1.2 37
		31 Sa	0104 3.8 116 0745 0.1 3 1403 3.6 110 1947 1.3 40						31 Th	0134 3.6 110 0852 -1.0 -30 1530 2.8 85 2043 1.1 34	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

St. Marks River Entrance, Florida, 2020

Times and Heights of High and Low Waters

January					February					March									
Time		Height			Time		Height			Time		Height			Time		Height		
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm
1	0506	2.5	76		16	0545	2.7	82		1	0620	2.3	70		16	0131	0.0	0	
W	1155	0.4	12		Th	1159	0.3	9		Sa	1129	1.1	34		M	0840	2.0	61	
	1822	2.5	76			1825	2.9	88			1716	2.9	88		W	1129	1.9	58	
															Th	1739	2.9	88	
2	0027	1.0	30		17	0105	0.2	6		2	0052	0.3	9		17	0307	0.1	3	
Th	0613	2.2	67		F	0709	2.3	70		M	0754	2.1	64		Tu	1907	2.6	79	
O	1240	0.7	21		O	1247	0.8	24		O	1221	1.5	46						
	1906	2.5	76			1913	2.8	85			1757	2.8	85						
3	0147	0.9	27		18	0227	0.0	0		3	0224	0.2	6		18	0433	0.0	0	
F	0752	2.0	61		Sa	0857	2.1	64		M	0953	2.2	67		W	1152	2.4	73	
	1335	1.0	30			1347	1.2	37		Tu	1344	1.8	55		Th	1608	2.0	61	
	1958	2.5	76			2012	2.8	85			1901	2.6	79		F	2215	2.6	79	
4	0311	0.7	21		19	0349	-0.3	-9		4	0358	0.0	0		19	0534	-0.1	-3	
Sa	0940	2.0	61		Su	1039	2.2	67		W	1116	2.5	76		Th	1220	2.6	79	
	1440	1.2	37			1502	1.5	46		Th	1533	1.9	58		Fr	1737	1.7	52	
	2053	2.5	76			2121	2.9	88			2049	2.6	79		Sa	2331	2.8	85	
5	0421	0.3	9		20	0500	-0.6	-18		5	0508	-0.4	-12		20	0618	-0.1	-3	
Su	1058	2.2	67		M	1151	2.4	73		Th	1208	2.8	85		F	1245	2.8	85	
	1548	1.3	40			1621	1.6	49		F	1659	1.7	52		Sa	1821	1.3	40	
	2146	2.6	79			2230	3.0	91			2229	2.9	88						
6	0515	-0.1	-3		21	0558	-0.8	-24		6	0602	-0.7	-21		21	0019	3.0	91	
M	1156	2.5	76		Tu	1243	2.5	76		F	1248	3.0	91		Sa	0653	-0.1	-3	
	1648	1.4	43			1728	1.5	46			1758	1.4	43		M	1309	3.0	91	
	2234	2.7	82			2329	3.1	94			2338	3.2	98		W	1856	0.9	27	
7	0601	-0.4	-12		22	0647	-1.0	-30		7	0647	-0.9	-27		22	0058	3.2	98	
Tu	1243	2.7	82		W	1324	2.7	82		Sa	1323	3.2	98		Su	0722	-0.1	-3	
	1739	1.4	43			1821	1.4	43			1846	1.0	30		Th	1333	3.2	98	
	2318	2.9	88												F	1929	0.5	15	
8	0644	-0.8	-24		23	0020	3.2	98		8	0034	3.5	107		23	0133	3.3	101	
W	1325	2.9	88		Th	0730	-1.0	-30		Su	0728	-0.9	-27		M	0748	0.0	0	
	1824	1.3	40			1359	2.8	85			1355	3.4	104		W	1355	3.3	101	
						1906	1.2	37			1929	0.5	15		Th	2000	0.3	9	
9	0001	3.1	94		24	0104	3.2	98		9	0125	3.7	113		24	0205	3.3	101	
Th	0724	-1.0	-30		F	0808	-1.0	-30		M	0805	-0.8	-24		Tu	0811	0.1	3	
	1405	3.0	91			1431	2.8	85		F	1424	3.5	107		W	1417	3.5	107	
	1906	1.3	40		O	1945	1.0	30		O	2012	0.1	3		Th	2031	0.1	3	
10	0042	3.3	101		25	0143	3.3	101		10	0214	3.8	116		25	0236	3.3	101	
F	0803	-1.2	-37		Sa	0842	-0.9	-27		Tu	0839	-0.6	-18		W	0833	0.2	6	
O	1444	3.1	94			1501	2.9	88			1452	3.5	107		Th	1437	3.5	107	
	1947	1.1	34			2022	0.8	24			2055	-0.3	-9		F	2100	-0.1	-3	
11	0125	3.5	107		26	0219	3.2	98		11	0301	3.7	113		26	0309	3.3	101	
Sa	0842	-1.3	-40		Su	0913	-0.7	-21		W	0911	-0.2	-6		Th	0856	0.4	12	
	1521	3.1	94			1530	2.9	88			1518	3.6	110		F	1457	3.6	110	
	2028	1.0	30			2059	0.7	21			2138	-0.5	-15		Sa	2129	-0.1	-3	
12	0209	3.6	110		27	0254	3.1	94		12	0350	3.4	104		27	0343	3.2	98	
Su	0921	-1.2	-37		M	0941	-0.5	-15		Th	0941	0.3	9		F	0921	0.5	15	
	1557	3.1	94			1557	2.9	88			1543	3.6	110		W	1517	3.6	110	
	2111	0.8	24			2135	0.6	18			2224	-0.6	-18		Th	2200	-0.1	-3	
13	0255	3.6	110		28	0329	3.0	91		13	0440	3.1	94		28	0420	3.0	91	
M	0959	-1.0	-30		Tu	1007	-0.3	-9		F	1008	0.8	24		Sa	0949	0.8	24	
	1632	3.0	91			1623	2.9	88			1608	3.5	107		M	1539	3.5	107	
	2158	0.7	21			2213	0.5	15			2315	-0.5	-15		W	2234	-0.1	-3	
14	0345	3.4	104		29	0406	2.8	85		14	0536	2.6	79		29	0505	2.8	85	
Tu	1037	-0.7	-21		W	1033	0.0	0		Sa	1034	1.2	37		Su	1020	1.1	34	
	1708	3.0	91			1649	2.8	85			1633	3.4	104		Th	1605	3.4	104	
	2251	0.5	15			2254	0.5	15							F	2316	0.0	0	
15	0440	3.1	94		30	0449	2.6	79		15	0014	-0.3	-9		30	0602	2.6	79	
W	1117	-0.2	-6		Th	1102	0.3	9		Su	0648	2.2	67		M	1058	1.4	43	
	1745	2.9	88			1715	2.8	85			1100	1.6	49		W	1637	3.3	101	
	2352	0.4	12			2341	0.5	15			1702	3.2	98						
					O	1759	3.0	91											
					31	0541	2.3	70							31	0013	0.1	3	
					F	1135	0.6	18							Tu	0725	2.4	73	
						1744	2.7	82							W	1150	1.7	52	
															Th	1719	3.1	94	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

St. Marks River Entrance, Florida, 2020

Times and Heights of High and Low Waters

April				May				June																				
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height															
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm														
1 W	0137	0.2	6		16 Th	0354	0.5	15		1 F	0226	0.2	6		16 Sa	0352	1.0	30		1 M	0354	0.8	24		16 Tu	0414	1.5	46
	0915	2.5	76			1108	2.5	76			0947	2.9	88			1036	2.8	85			1030	3.5	107			1040	3.2	98
	1314	2.0	61			1602	2.1	64			1446	1.9	58			1644	1.6	49			1658	0.5	15			1743	0.7	21
	1825	2.9	88			2158	2.6	79			2008	3.0	91			2240	2.6	79			2310	3.1	94					
2 Th	0313	0.1	3		17 F	0457	0.5	15		2 Sa	0342	0.2	6		17 Su	0443	1.0	30		2 Tu	0452	1.1	34		17 W	0000	2.8	85
	1040	2.7	82			1138	2.7	82			1042	3.2	98			1111	3.1	94			1112	3.7	113			0502	1.6	49
	1508	2.0	61			1723	1.6	49			1615	1.5	46			1735	1.1	34			1755	0.0	0			1116	3.4	104
	2020	2.8	85			2315	2.8	85			2159	3.1	94			2339	2.8	85								1825	0.4	12
3 F	0430	-0.1	-3		18 Sa	0542	0.5	15		3 Su	0445	0.2	6		18 M	0524	1.1	34		3 W	0017	3.3	101		18 Th	0046	3.0	91
	1132	3.0	91			1205	3.0	91			1124	3.4	104			1141	3.3	101			0543	1.3	40			0546	1.7	52
	1639	1.7	52			1805	1.2	37			1720	0.9	27			1815	0.7	21			1152	3.9	119			1149	3.5	107
	2214	3.0	91								2319	3.3	101								1847	-0.5	-15			1903	0.1	3
4 Sa	0528	-0.3	-9		19 Su	0004	3.0	91		4 M	0537	0.3	9		19 Tu	0024	3.0	91		4 Th	0114	3.5	107		19 F	0128	3.1	94
	1212	3.3	101			0616	0.5	15			1200	3.7	113			0558	1.2	37			0628	1.4	43			0625	1.7	52
	1741	1.2	37			1230	3.2	98			1813	0.3	9			1208	3.4	104			1231	4.1	125			1221	3.7	113
	2329	3.3	101			1840	0.8	24							1850	0.4	12			1935	-0.8	-24			1939	-0.1	-3	
5 Su	0616	-0.4	-12		20 M	0044	3.1	94		5 Tu	0022	3.5	107		20 W	0103	3.1	94		5 F	0205	3.5	107		20 Sa	0207	3.3	101
	1245	3.5	107			0645	0.6	18			0622	0.5	15			0629	1.2	37			0710	1.6	49			0703	1.7	52
	1830	0.7	21			1253	3.4	104			1234	3.9	119			1233	3.6	110			1308	4.2	128			1253	3.8	116
						1912	0.4	12			1900	-0.3	-9			1923	0.1	3			2021	-0.9	-27			2014	-0.3	-9
6 M	0029	3.6	110		21 Tu	0119	3.2	98		6 W	0118	3.7	113		21 Th	0140	3.2	98		6 Sa	0252	3.4	104		21 Su	0246	3.3	101
	0658	-0.3	-9			0710	0.6	18			0702	0.8	24			0659	1.3	40			0749	1.7	52			0741	1.7	52
	1316	3.6	110			1316	3.6	110			1306	4.0	122			1257	3.7	113			1345	4.2	128			1327	4.0	122
	1916	0.1	3			1943	0.1	3			1946	-0.7	-21			1955	-0.1	-3			2106	-0.9	-27			2049	-0.5	-15
7 Tu	0122	3.8	116		22 W	0153	3.3	101		7 Th	0209	3.7	113		22 F	0216	3.3	101		7 Su	0336	3.3	101		22 M	0324	3.4	104
	0736	-0.1	-3			0735	0.7	21			0739	1.0	30			0729	1.3	40			0826	1.7	52			0819	1.6	49
	1345	3.8	116			1337	3.7	113			1337	4.1	125			1321	3.8	116			1422	4.1	125			1402	4.1	125
	1959	-0.4	-12			2013	-0.1	-3			2031	-0.9	-27			2027	-0.3	-9			2149	-0.7	-21			2125	-0.5	-15
8 W	0212	3.8	116		23 Th	0226	3.3	101		8 F	0257	3.6	110		23 Sa	0252	3.3	101		8 M	0418	3.2	98		23 Tu	0402	3.4	104
	0810	0.3	9			0759	0.8	24			0813	1.3	40			0800	1.4	43			0903	1.8	55			0859	1.6	49
	1413	3.9	119			1358	3.7	113			1407	4.1	125			1347	3.9	119			1458	4.0	122			1441	4.1	125
	2042	-0.7	-21			2042	-0.2	-6			2115	-0.9	-27			2058	-0.4	-12			2230	-0.4	-12			2201	-0.5	-15
9 Th	0300	3.7	113		24 F	0259	3.3	101		9 Sa	0344	3.4	104		24 Su	0330	3.4	104		9 Tu	0459	3.0	91		24 W	0441	3.4	104
	0842	0.6	18			0826	0.9	27			0845	1.5	46			0833	1.4	43			0941	1.8	55			0942	1.6	49
	1440	3.9	119			1419	3.8	116			1437	4.1	125			1416	4.0	122			1535	3.8	116			1524	4.1	125
	2126	-0.8	-24			2111	-0.3	-9			2159	-0.8	-24			2132	-0.4	-12			2312	-0.1	-3			2240	-0.4	-12
10 F	0348	3.5	107		25 Sa	0334	3.3	101		10 Su	0430	3.2	98		25 M	0409	3.3	101		10 W	0541	2.9	88		25 Th	0522	3.3	101
	0911	1.0	30			0925	1.2	37			0916	1.7	52			0908	1.5	46			1024	1.8	55			1031	1.5	46
	1505	3.9	119			1442	3.8	116			1508	4.0	122			1449	4.0	122			1614	3.5	107			1613	3.9	119
	2211	-0.8	-24			2142	-0.3	-9			2245	-0.5	-15			2209	-0.4	-12			2354	0.3	9			2322	-0.2	-6
11 Sa	0437	3.1	94		26 Su	0413	3.2	98		11 M	0518	2.9	88		26 Tu	0453	3.2	98		11 Th	0627	2.8	85		26 F	0605	3.3	101
	0938	1.3	40			0925	1.2	37			0947	1.8	55			0948	1.6	49			1117	1.9	58			1129	1.5	46
	1531	3.8	116			1508	3.8	116			1540	3.8	116			1526	4.0	122			1701	3.2	98			1710	3.6	110
	2259	-0.6	-18			2217	-0.3	-9			2335	-0.1	-3			2251	-0.3	-9										
12 Su	0529	2.8	85		27 M	0458	3.1	94		12 Tu	0613	2.6	79		27 W	0543	3.1	94		12 F	0038	0.6	18		27 Sa	0008	0.2	6
	1004	1.6	49			1000	1.4	43			1024	2.0	61			1035	1.8	55			0718	2.8	85			0651	3.3	101
	1558	3.7	113			1539	3.8	116			1615	3.5	107			1610	3.8	116			1230	1.9	58			1239	1.4	43
	2354	-0.2	-6			2300	-0.2	-6							2340	-0.2	-6				1807	2.8	85			1821	3.2	98
13 M	0634	2.4	73		28 Tu	0553	2.9	88		13 W	0031	0.2	6		28 Th	0639	3.1	94		13 Sa	0128	1.0	30		28 Su	0059	0.6	18
	1031	1.8	55			1041	1.7	52			0720	2.5	76			1134	1.8	55			0814	2.8	85			0742	3.4	104
	1627	3.4	104			1616	3.6	110			1114	2.1	64			1704	3.6	110			1							

St. Marks River Entrance, Florida, 2020

Times and Heights of High and Low Waters

July					August					September																													
Time		Height			Time		Height			Time		Height			Time		Height																						
	<small>h</small>	<small>m</small>	<small>ft</small>	<small>cm</small>		<small>h</small>	<small>m</small>	<small>ft</small>	<small>cm</small>		<small>h</small>	<small>m</small>	<small>ft</small>	<small>cm</small>		<small>h</small>	<small>m</small>	<small>ft</small>	<small>cm</small>																				
1 W	0404	1.7	52		16 Th	0406	1.9	58		1 Sa	0103	3.1	94		16 Su	0052	3.2	98		1 Tu	0148	3.4	104		16 W	0129	3.7	113											
	1027	3.7	113			1018	3.2	98			0546	2.0	61			0540	2.0	61			0716	1.4	43			0700	1.1	34											
	1741	-0.1	-3			1758	0.5	15			1201	3.9	119			1134	3.7	113			1328	4.0	122			1304	4.3	131		1945	0.0	0							
2 Th	0014	3.1	94		17 F	0028	2.9	88		2 Su	0144	3.2	98		17 M	0131	3.4	104		2 W	0215	3.5	107		17 Th	0159	3.8	116		2 O	0220	3.5	110		17 F	0227	3.9	119	
	0505	1.8	55			0507	2.0	61			0639	1.9	58			0630	1.8	55			0754	1.1	34			0744	0.7	21											
	1119	3.9	119			1108	3.4	104			1250	4.0	122			1224	4.0	122			1404	4.0	122			1353	4.4	134			2020	0.2	6						
3 F	0110	3.2	98		18 Sa	0114	3.1	94		3 M	0220	3.3	101		18 Tu	0206	3.5	107		3 Th	0241	3.6	110		18 F	0227	3.9	119		3 O	0227	3.9	119		18 F	0227	3.9	119	
	0600	1.9	58			0559	1.9	58			0725	1.7	52			0715	1.6	49			0829	0.9	27			0827	0.3	9											
	1208	4.0	122			1153	3.6	110			1334	4.1	125			1310	4.2	128			1438	4.0	122			1440	4.4	134			2053	0.5	15						
4 Sa	0158	3.3	101		19 Su	0155	3.3	101		4 Tu	0252	3.4	104		19 W	0239	3.6	110		4 F	0304	3.7	113		19 Sa	0254	3.9	119		4 O	0254	3.9	119		19 Sa	0254	3.9	119	
	0649	1.9	58			0645	1.9	58			0806	1.5	46			0758	1.3	40			0903	0.8	24			0911	0.0	0											
	1253	4.1	125			1235	3.9	119			1412	4.1	125			1356	4.4	134			1511	3.9	119			1529	4.2	128			2125	0.9	27						
5 Su	0241	3.3	101		20 M	0232	3.4	104		5 W	0322	3.4	104		20 Th	0309	3.7	113		5 Sa	0327	3.7	113		20 Su	0321	4.0	122		5 O	0321	4.0	122		20 Su	0321	4.0	122	
	0733	1.8	55			0727	1.7	52			0845	1.3	40			0841	1.0	30			0936	0.8	24			0957	-0.1	-3											
	1336	4.1	125			1316	4.1	125			1449	4.0	122			1442	4.4	134			1546	3.7	113			1618	3.9	119			2156	1.3	40						
6 M	0319	3.3	101		21 Tu	0308	3.5	107		6 Th	0349	3.4	104		21 F	0338	3.8	116		6 Su	0348	3.7	113		21 M	0349	4.0	122		6 O	0349	4.0	122		21 M	0349	4.0	122	
	0815	1.7	52			0809	1.6	49			0922	1.2	37			0925	0.7	21			1009	0.8	24			1047	0.0	0											
	1416	4.1	125			1358	4.2	128			1524	3.9	119			1529	4.3	131			1623	3.5	107			1713	3.5	107			2227	1.6	49						
7 Tu	0355	3.3	101		22 W	0342	3.5	107		7 F	0415	3.4	104		22 Sa	0406	3.8	116		7 M	0411	3.6	110		22 Tu	0419	3.9	119		7 O	0419	3.9	119		22 Tu	0419	3.9	119	
	0855	1.6	49			0851	1.4	43			0959	1.2	37			1012	0.5	15			1046	0.8	24			1145	0.2	6											
	1455	4.0	122			1442	4.3	131			1600	3.7	113			1619	4.0	122			1705	3.3	101			1816	3.0	91			2300	2.0	61						
8 W	0429	3.2	98		23 Th	0415	3.6	110		8 Sa	0440	3.4	104		23 Su	0434	3.8	116		8 Tu	0436	3.5	107		23 W	0454	3.7	113		8 O	0454	3.7	113		23 W	0454	3.7	113	
	0935	1.6	49			0936	1.3	40			1039	1.1	34			1103	0.4	12			1129	0.9	27			1257	0.4	12											
	1532	3.8	116			1528	4.2	128			1639	3.4	104			1714	3.6	110			1758	3.0	91			1941	2.7	82			2342	2.2	67						
9 Th	0501	3.2	98		24 F	0448	3.6	110		9 Su	0505	3.4	104		24 M	0505	3.8	116		9 W	0507	3.4	104		24 Th	0541	3.5	107		9 O	0541	3.5	107		24 Th	0541	3.5	107	
	1017	1.5	46			1024	1.1	34			1122	1.2	37			1203	0.4	12			1227	1.0	30			1426	0.6	18											
	1611	3.6	110			1617	4.0	122			1725	3.1	94			1819	3.1	94			1913	2.8	85			2130	2.6	79											
10 F	0533	3.1	94		25 Sa	0521	3.6	110		10 M	0533	3.3	101		25 Tu	0542	3.7	113		10 Th	0011	1.9	58		25 F	0056	2.4	73		10 O	0056	2.4	73						
	1104	1.5	46			1119	1.0	30			1214	1.2	37			1316	0.5	15			1354	1.1	34			1555	0.6	18											
	1654	3.3	101			1713	3.6	110			1823	2.9	88			1944	2.8	85			2059	2.7	82			2253	2.8	85											
11 Sa	0607	3.1	94		26 Su	0558	3.6	110		11 Tu	0004	1.4	43		26 W	0019	2.0	61		11 F	0122	2.2	67		26 Sa	0305	2.3	70		11 O	0305	2.3	70						
	1159	1.5	46			1222	0.8	24			0606	3.2	98			0630	3.6	110			0650	3.2	98			0944	3.2	98											
	1747	3.0	91			1821	3.2	98			1323	1.2	37			1443	0.5	15			1532	0.9	27			1704	0.5	15											
12 Su	0019	1.0	30		27 M	0017	1.1	34		12 W	0052	1.8	55		27 Th	0122	2.2	67		12 Sa	0255	2.3	70		27 Su	0445	2.0	61		12 O	0445	2.0	61						
	0644	3.0	91			0639	3.6	110			0649	3.2	98			0748	3.5	107			0832	3.2	98			1106	3.4	104											
	1308	1.5	46			1337	0.7	21			1454	1.2	37			1611	0.4	12			1647	0.6	18			1755	0.5	15											
13 M	0102	1.3	40		28 Tu	0105	1.5	46		13 Th	0159	2.0	61		28 F	0258	2.4	73		13 Su	0421	2.1	64		28 M	0013	3.1	94											
	0728	3.0	91			0730	3.5	107			0753	3.1	94			0939	3.5	107			1011	3.4	104			0543	1.6	49											
	1433	1.4	43			1501	0.5	15			1621	0.9	27			1722	0.3	9			1742	0.3	9			1159	3.6	110											
14 Tu	0155	1.6	49		29 W	0206	1.9	58		14 F	0322	2.2	67		29 Sa	0004	2.9	88		14 M	0019	3.3	101		29 Tu	0042	3.3	101											
	0821	3.1	94			0836	3.6	110			0918	3.2	98			0437	2.2	67			0524	1.9	58			0626	1.3	40											
	1558	1.1	34			1623	0.3	9			1726	0.6	18			1103	3.6	110			1119	3.7	113			1241	3.8	116											
15 W	0259	1.8	55		30 Th	0322	2.1	64		15 Sa	0006	3.0	91		30 Su	0045	3.1	94		15 Tu	0056	3.5	107		30 W	0108	3.5	107											
	0921	3.1	94			0952	3.6	110			0439	2.1	64			1202	3.8	116			0615	1.5	46			0703	0.9	27											
	1																																						

St. Marks River Entrance, Florida, 2020

Times and Heights of High and Low Waters

October				November				December																					
Time		Height		Time		Height		Time		Height		Time		Height															
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm										
1 Th O	0133	3.6	110		16 F ●	0115	3.9	119		1 Su	0135	3.7	113		16 M	0139	4.0	122		1 Tu	0128	3.4	104		16 W	0200	3.7	113	
	0737	0.7	21			0728	-0.1	-3			0821	0.0	0			0846	-1.1	-34			0837	-0.5	-15			0922	-1.2	-37	
	1351	3.9	119			1348	4.2	128			1445	3.5	107			1521	3.6	110			1511	3.2	98			1555	3.0	91	
	1958	0.7	21			1948	0.7	21			2013	1.2	37			2029	1.5	46			2021	1.2	37			2052	1.4	43	
2 F	0156	3.7	113		17 Sa	0144	4.0	122		2 M	0159	3.7	113		17 Tu	0213	3.9	119		2 W	0158	3.5	107		17 Th	0241	3.5	107	
	0809	0.5	15			0812	-0.4	-12			0851	-0.1	-3			0933	-1.0	-30			0909	-0.5	-15			1006	-0.9	-27	
	1424	3.8	116			1437	4.1	125			1519	3.5	107			1609	3.3	101			1548	3.1	94			1636	2.8	85	
	2022	0.8	24			2022	1.0	30			2042	1.2	37			2104	1.6	49			2057	1.3	40			2133	1.3	40	
3 Sa	0218	3.8	116		18 Su	0212	4.0	122		3 Tu	0223	3.7	113		18 W	0248	3.8	116		3 Th	0231	3.5	107		18 F	0322	3.3	101	
	0841	0.4	12			0857	-0.6	-18			0922	-0.1	-3			1021	-0.7	-21			0944	-0.5	-15			1048	-0.5	-15	
	1457	3.8	116			1526	3.9	119			1557	3.4	104			1658	3.0	91			1629	3.1	94			1717	2.7	82	
	2047	0.9	27			2055	1.3	40			2114	1.4	43			2141	1.7	52			2136	1.3	40			2218	1.3	40	
4 Su	0240	3.8	116		19 M	0241	4.1	125		4 W	0251	3.6	110		19 Th	0326	3.6	110		4 F	0308	3.4	104		19 Sa	0406	3.0	91	
	0911	0.3	9			0944	-0.6	-18			0956	0.0	0			1112	-0.3	-9			1024	-0.4	-12			1131	-0.1	-3	
	1531	3.7	113			1615	3.6	110			1639	3.2	98			1750	2.7	82			1714	3.0	91			1736	2.5	76	
	2113	1.1	34			2126	1.6	49			2150	1.5	46			2224	1.8	55			2222	1.4	43			2312	1.3	40	
5 M	0301	3.7	113		20 Tu	0311	4.0	122		5 Th	0322	3.6	110		20 F	0408	3.3	101		5 Sa	0351	3.3	101		20 Su	0458	2.7	82	
	0942	0.4	12			1033	-0.4	-12			1036	0.1	3			1209	0.1	3			1109	-0.3	-9			1215	0.3	9	
	1608	3.5	107			1708	3.3	101			1729	3.1	94			1850	2.5	76			1804	2.9	88			1843	2.4	73	
	2141	1.3	40			2158	1.9	58			2233	1.7	52			2321	1.9	58			2318	1.4	43			1843	2.4	73	
6 Tu	0325	3.7	113		21 W	0344	3.8	116		6 F	0401	3.4	104		21 Sa	0504	2.9	88		6 Su	0446	3.1	94		21 M	0022	1.3	40	
	1016	0.4	12			1130	-0.1	-3			1128	0.2	6			1314	0.5	15			1203	-0.1	-3			0610	2.3	70	
	1649	3.3	101			1809	2.9	88			1832	2.9	88			1959	2.5	76			1901	2.8	85			1303	0.7	21	
	2214	1.5	46			2235	2.0	61			2329	1.8	55			●	●		●		●		1933	2.4		73			
7 W	0352	3.6	110		22 Th	0421	3.6	110		7 Sa	0451	3.2	98		22 Su	0051	1.8	55		7 M	0029	1.3	40		22 Tu	0152	1.1	34	
	1056	0.5	15			1237	0.3	9			1235	0.4	12			0642	2.6	79			0558	2.8	85			0800	2.1	64	
	1741	3.1	94			1926	2.6	79			1948	2.9	88			1424	0.8	24			1305	0.2	6			1400	1.0	30	
	2253	1.7	52			2324	2.2	67			●	●		●		●		●	●			2000	2.9	88			2028	2.4	73
8 Th	0425	3.5	107		23 F	0512	3.2	98		8 Su	0046	1.9	58		23 M	0246	1.6	49		8 Tu	0152	1.1	34		23 W	0322	0.8	24	
	1150	0.7	21			1359	0.6	18			0603	3.0	91			0903	2.5	76			0735	2.7	82			0948	2.1	64	
	1852	2.9	88			2100	2.6	79			1353	0.4	12			1529	0.9	27			1413	0.5	15			1501	1.2	37	
	2345	2.0	61			●	●		●		●		●	●			●	●			●	●		2122		2.5	76		
9 F	0509	3.3	101		24 Sa	0056	2.3	70		9 M	0218	1.7	52		24 Tu	0411	1.2	37		9 W	0313	0.7	21		24 Th	0431	0.5	15	
	1308	0.8	24			0702	2.9	88			0749	2.9	88			1030	2.6	79			0919	2.7	82			1102	2.2	67	
	2026	2.8	85			1522	0.7	21			1509	0.5	15			1623	1.1	34			1520	0.7	21			1601	1.3	40	
						2212	2.7	82			2201	3.1	94			2236	2.8	85			2148	3.1	94			2210	2.7	82	
10 Sa	0100	2.2	67		25 Su	0313	2.1	64		10 Tu	0340	1.3	40		25 W	0506	0.8	24		10 Th	0422	0.1	3		25 F	0522	0.1	3	
	0617	3.2	98			0938	2.9	88			0934	3.0	91			1127	2.7	82			1044	2.9	88			1154	2.4	73	
	1442	0.7	21			1629	0.8	24			1613	0.5	15			1705	1.1	34			1622	0.9	27			1653	1.4	43	
	2154	3.0	91			2257	2.9	88			2246	3.3	101			2310	3.0	91			2234	3.3	101			2252	2.8	85	
11 Su	0238	2.2	67		26 M	0439	1.6	49		11 W	0444	0.8	24		26 Th	0548	0.4	12		11 F	0520	-0.4	-12		26 Sa	0605	-0.2	-6	
	0805	3.1	94			1055	3.1	94			1053	3.3	101			1211	2.9	88			1151	3.1	94			1237	2.6	79	
	1601	0.5	15			1718	0.8	24			1707	0.5	15			1741	1.2	37			1716	1.1	34			1738	1.3	40	
	2253	3.2	98			2330	3.1	94			2324	3.5	107			2339	3.2	98			2316	3.4	104			2329	2.9	88	
12 M	0403	1.9	58		27 Tu	0530	1.2	37		12 Th	0538	0.2	6		27 F	0626	0.1	3		12 Sa	0613	-0.9	-27		27 Su	0644	-0.4	-12	
	0952	3.3	101			1146	3.3	101			1156	3.6	110			1250	3.0	91			1249	3.3	101			1316	2.8	85	
	1701	0.4	12			1755	0.9	27			1754	0.7	21			1813	1.2	37			1806	1.2	37			1818	1.3	40	
	2336	3.4	104			2358	3.2	98			2359	3.7	113			●	●		●		●		2358	3.6		110		●	●
13 Tu	0506	1.4	43		28 W	0610	0.8	24		13 F	0627	-0.3	-9		28 Sa	0007	3.3	101		13 Su	0703	-1.2	-37		28 M	0004	3.0	91	
	1106	3.6	110			1227	3.4	104			1252	3.8	116			0700	-0.2	-6			1341	3.3	101			0720	-0.6	-18	
	1749	0.3	9			1826	0.9	27			1837	0.9	27			1326	3.1	94			1850	1.3	40			1352	2.9	88	
						●	●		●		●		●	●			●	●			●	●		1855		1.2	37		
14 W	0012	3.6	110		29 Th	0025	3.4	104		14 Sa	0032	3.8	116		29 Su	0034	3.3	101		14 M	0039	3.7	113		29 Tu	0037	3.1	94	
	0557	0.9	27			0645	0.5	15			0713	-0.8	-24			0733	-0.3	-9			0751	-1.4	-43			0754	-0.7	-21	
	1205	3.9	119			1304	3.5	107			1344	3.8	116			1400	3.2	98											

Apalachicola, Florida, 2020

Times and Heights of High and Low Waters

January				February				March			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m ft cm		h m ft cm		h m ft cm		h m ft cm		h m ft cm		h m ft cm	
1 W	0150 0.5 15 0640 0.9 27 1352 -0.2 -6 2054 1.0 30	16 Th	0205 0.2 6 0730 0.9 27 1415 -0.2 -6 2035 0.9 27	1 Sa	0258 -0.1 -3 0925 0.5 15 1358 0.2 6 2015 1.0 30	16 Su	0417 -0.5 -15 2020 1.1 34	1 Su	0159 -0.2 -6 0929 0.8 24 1320 0.6 18 1903 1.2 37	16 M	0347 -0.4 -12 1919 1.3 40
2 Th	0257 0.3 9 0757 0.7 21 1424 0.0 0 2118 1.0 30	17 F	0322 0.0 0 0911 0.7 21 1451 0.1 3 2101 1.0 30	2 Su	0409 -0.2 -6 1128 0.5 15 1433 0.4 12 2047 1.0 30	17 M	0544 -0.6 -18 2110 1.1 34	2 M	0302 -0.3 -9 1122 0.8 24 1353 0.7 21 1940 1.2 37	17 Tu	0513 -0.4 -12 2029 1.2 37
3 F	0412 0.2 6 0939 0.5 15 1501 0.2 6 2141 1.0 30	18 Sa	0446 -0.3 -9 1111 0.6 18 1528 0.4 12 2130 1.0 30	3 M	0536 -0.4 -12 2126 1.1 34	18 Tu	0658 -0.7 -21 1612 1.0 30 1826 0.9 27 2212 1.1 34	3 Tu	0427 -0.3 -9 2034 1.2 37	18 W	0632 -0.4 -12 1438 1.1 34 1851 1.0 30 2203 1.1 34
4 Sa	0534 0.0 0 1143 0.5 15 1545 0.4 12 2205 1.0 30	19 Su	0608 -0.5 -15 1405 0.7 21 1609 0.6 18 2205 1.1 34	4 Tu	0650 -0.5 -15 2213 1.1 34	19 W	0755 -0.7 -21 1558 1.0 30 1945 0.9 27 2334 1.1 34	4 W	0604 -0.4 -12 1443 1.1 34 1710 1.0 30 2141 1.2 37	19 Th	0731 -0.3 -9 1451 1.1 34 1944 0.9 27 2354 1.1 34
5 Su	0640 -0.2 -6 1358 0.6 18 1643 0.5 15 2232 1.1 34	20 M	0714 -0.7 -21 1544 0.9 27 1808 0.8 24 2248 1.1 34	5 W	0744 -0.7 -21 1559 1.0 30 1906 0.9 27 2312 1.2 37	20 Th	0843 -0.7 -21 1612 1.0 30 2030 0.8 24	5 Th	0714 -0.5 -15 1516 1.1 34 1902 1.0 30 2259 1.2 37	20 F	0818 -0.3 -9 1509 1.2 37 2022 0.7 21
6 M	0728 -0.4 -12 1513 0.8 24 1808 0.7 21 2306 1.1 34	21 Tu	0808 -0.9 -27 1627 1.0 30 1933 0.9 27 2344 1.2 37	6 Th	0831 -0.8 -24 1633 1.1 34 2002 0.9 27	21 F	0103 1.1 34 0927 -0.6 -18 1629 1.0 30 2110 0.7 21	6 F	0807 -0.6 -18 1545 1.2 37 1953 0.9 27	21 Sa	0129 1.2 37 0857 -0.1 -3 1527 1.2 37 2058 0.6 18
7 Tu	0809 -0.6 -18 1610 1.0 30 1918 0.9 27 2349 1.2 37	22 W	0857 -0.9 -27 1653 1.0 30 2024 0.9 27	7 F	0025 1.2 37 0918 -0.9 -27 1704 1.1 34 2047 0.9 27	22 Sa	0206 1.2 37 1006 -0.5 -15 1646 1.1 34 2149 0.6 18	7 Sa	0027 1.3 40 0854 -0.6 -18 1610 1.2 37 2035 0.8 24	22 Su	0226 1.2 37 0931 0.0 0 1543 1.2 37 2134 0.5 15
8 W	0850 -0.7 -21 1655 1.1 34 2009 1.0 30	23 Th	0049 1.2 37 0943 -0.9 -27 1716 1.0 30 2111 0.8 24	8 Sa	0132 1.3 40 1005 -0.9 -27 1730 1.1 34 2134 0.8 24	23 Su	0256 1.2 37 1039 -0.4 -12 1702 1.1 34 2228 0.5 15	8 Su	0141 1.4 43 0940 -0.5 -15 1629 1.2 37 2120 0.6 18	23 M	0312 1.3 40 1000 0.1 3 1555 1.3 40 2209 0.4 12
9 Th	0040 1.3 40 0934 -0.8 -24 1734 1.2 37 2056 1.0 30	24 F	0147 1.2 37 1027 -0.8 -24 1737 1.0 30 2159 0.8 24	9 Su	0232 1.4 43 1049 -0.8 -24 1751 1.0 30 2224 0.6 18	24 M	0341 1.2 37 1104 -0.2 -6 1715 1.1 34 2302 0.4 12	9 M	0244 1.5 46 1024 -0.4 -12 1643 1.1 34 2208 0.4 12	24 Tu	0355 1.3 40 1023 0.3 9 1605 1.3 40 2241 0.3 9
10 F	0133 1.4 43 1020 -0.9 -27 1809 1.2 37 2147 1.0 30	25 Sa	0239 1.2 37 1104 -0.7 -21 1756 1.0 30 2242 0.7 21	10 M	0330 1.4 43 1129 -0.7 -21 1806 1.0 30 2312 0.5 15	25 Tu	0424 1.2 37 1124 -0.1 -3 1726 1.1 34 2334 0.2 6	10 Tu	0346 1.6 49 1103 -0.2 -6 1654 1.2 37 2257 0.2 6	25 W	0437 1.3 40 1043 0.4 12 1616 1.4 43 2310 0.1 3
11 Sa	0225 1.4 43 1104 -0.9 -27 1840 1.1 34 2239 0.9 27	26 Su	0327 1.2 37 1134 -0.6 -18 1814 1.0 30 2321 0.5 15	11 Tu	0430 1.4 43 1205 -0.6 -18 1819 1.0 30 2358 0.2 6	26 W	0507 1.1 34 1143 0.0 0 1738 1.2 37	11 W	0448 1.5 46 1138 0.1 3 1707 1.2 37 2344 0.0 0	26 Th	0520 1.3 40 1104 0.5 15 1630 1.4 43 2338 0.0 0
12 Su	0319 1.4 43 1146 -0.9 -27 1909 1.1 34 2326 0.8 24	27 M	0415 1.1 34 1159 -0.5 -15 1831 1.0 30 2356 0.4 12	12 W	0530 1.3 40 1237 -0.3 -9 1833 1.0 30	27 Th	0005 0.1 3 0551 1.0 30 1202 0.1 3 1753 1.2 37	12 Th	0550 1.4 43 1208 0.3 9 1724 1.3 40	27 F	0606 1.2 37 1128 0.7 21 1649 1.5 46
13 M	0416 1.4 43 1224 -0.8 -24 1933 1.0 30	28 Tu	0501 1.0 30 1220 -0.4 -12 1848 1.0 30	13 Th	0047 0.0 0 0634 1.1 34 1306 0.0 0 1851 1.0 30	28 F	0037 0.0 0 0643 0.9 27 1225 0.2 6 1812 1.2 37	13 F	0031 -0.2 -6 0700 1.3 40 1232 0.6 18 1745 1.4 43	28 Sa	0008 -0.1 -3 0700 1.2 37 1156 0.8 24 1713 1.5 46
14 Tu	0011 0.6 18 0514 1.3 40 1302 -0.7 -21 1953 0.9 27	29 W	0032 0.3 9 0547 0.9 27 1240 -0.3 -9 1905 1.0 30	14 F	0144 -0.2 -6 0756 0.9 27 1331 0.2 6 1913 1.1 34	29 Sa	0113 -0.1 -3 0753 0.8 24 1251 0.4 12 1835 1.2 37	14 Sa	0124 -0.3 -9 0832 1.1 34 1253 0.8 24 1809 1.4 43	29 Su	0041 -0.2 -6 0814 1.2 37 1227 0.9 27 1740 1.5 46
15 W	0102 0.4 12 0615 1.1 34 1339 -0.4 -12 2013 0.9 27	30 Th	0112 0.2 6 0638 0.8 24 1303 -0.1 -3 1925 1.0 30	15 Sa	0255 -0.3 -9 0943 0.7 21 1350 0.5 15 1942 1.1 34			15 Su	0229 -0.4 -12 1013 1.0 30 1306 0.9 27 1839 1.4 43	30 M	0123 -0.2 -6 0942 1.1 34 1301 1.0 30 1812 1.5 46
		31 F	0159 0.0 0 0747 0.6 18 1328 0.0 0 1948 1.0 30							31 Tu	0221 -0.2 -6 1109 1.2 37 1350 1.1 34 1853 1.4 43

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Apalachicola, Florida, 2020

Times and Heights of High and Low Waters

April				May				June															
Time	Height			Time	Height			Time	Height			Time	Height										
	h	m	ft	h	m	ft	h	m	ft	h	m	ft	h	m	ft	h	m	ft	h	m	ft		
1 W	0342	-0.2	-6	16 Th	0548	0.0	0	1 F	0432	-0.1	-3	16 Sa	0540	0.4	12	1 M	0556	0.5	15	16 Tu	0145	1.1	34
	1252	1.2	37		1312	1.3	40		1232	1.4	43		1215	1.4	43		1159	1.5	46		0537	0.9	27
	1522	1.1	34		1838	1.0	30		1718	1.1	34		1902	0.7	21		1914	0.3	9		1132	1.6	49
O	1959	1.4	43		2209	1.2	37		2129	1.4	43									O	1952	0.1	3
2 Th	0516	-0.2	-6	17 F	0650	0.1	3	2 Sa	0548	0.0	0	17 Su	0007	1.1	34	2 Tu	0120	1.3	40	17 W	0259	1.2	37
	1345	1.3	40		1339	1.3	40		1304	1.4	43		0632	0.5	15		0653	0.8	24		0632	1.1	34
	1724	1.2	37		1927	0.8	24		1836	0.9	27		1242	1.5	46		1224	1.6	49		1156	1.6	49
	2129	1.3	40						2307	1.4	43		1943	0.5	15		2002	0.0	0		2028	0.0	0
3 F	0636	-0.2	-6	18 Sa	0013	1.1	34	3 Su	0651	0.1	3	18 M	0143	1.2	37	3 W	0248	1.4	43	18 Th	0401	1.4	43
	1417	1.3	40		0737	0.2	6		1326	1.4	43		0712	0.7	21		0739	1.0	30		0717	1.3	40
	1851	1.0	30		1401	1.3	40		1927	0.6	18		1302	1.5	46		1250	1.7	52		1223	1.7	52
	2300	1.4	43		2005	0.6	18						2019	0.3	9		2048	-0.2	-6		2103	-0.1	-3
4 Sa	0734	-0.2	-6	19 Su	0142	1.2	37	4 M	0051	1.4	43	19 Tu	0246	1.3	40	4 Th	0404	1.6	49	19 F	0454	1.5	46
	1441	1.3	40		0813	0.3	9		0741	0.3	9		0743	0.9	27		0819	1.3	40		0755	1.4	43
	1940	0.9	27		1419	1.4	43		1342	1.5	46		1317	1.6	49		1319	1.8	55		1254	1.8	55
					2040	0.5	15		2011	0.4	12		2052	0.1	3		2136	-0.4	-12		2139	-0.2	-6
5 Su	0036	1.4	43	20 M	0238	1.3	40	5 Tu	0214	1.5	46	20 W	0343	1.4	43	5 F	0510	1.7	52	20 Sa	0538	1.6	49
	0821	-0.2	-6		0842	0.5	15		0824	0.6	18		0809	1.0	30		0857	1.4	43		0834	1.5	46
	1459	1.3	40		1432	1.4	43		1357	1.6	49		1331	1.6	49		1350	1.9	58		1330	1.9	58
	2023	0.6	18		2114	0.3	9		2056	0.1	3		2125	0.0	0		2225	-0.5	-15		2218	-0.3	-9
6 M	0154	1.5	46	21 Tu	0326	1.3	40	6 W	0326	1.6	49	21 Th	0436	1.4	43	6 Sa	0606	1.7	52	21 Su	0619	1.7	52
	0905	0.0	0		0907	0.7	21		0904	0.9	27		0835	1.2	37		0940	1.5	46		0920	1.6	49
	1512	1.3	40		1442	1.5	46		1415	1.7	52		1348	1.7	52		1426	2.0	61		1410	1.9	58
	2107	0.4	12		2147	0.2	6		2143	-0.1	-3		2158	-0.1	-3		2313	-0.5	-15	O	2257	-0.3	-9
7 Tu	0301	1.6	49	22 W	0413	1.4	43	7 Th	0436	1.7	52	22 F	0525	1.5	46	7 Su	0657	1.7	52	22 M	0659	1.7	52
	0948	0.2	6		0929	0.8	24		0945	1.1	34		0906	1.3	40		1034	1.6	49		1018	1.6	49
	1525	1.4	43		1453	1.6	49		1437	1.8	55		1410	1.8	55		1507	2.0	61		1454	2.0	61
O	2154	0.2	6	O	2219	0.1	3	O	2233	-0.3	-9	O	2231	-0.1	-3		2357	-0.4	-12		2336	-0.3	-9
8 W	0406	1.6	49	23 Th	0459	1.4	43	8 F	0542	1.7	52	23 Sa	0611	1.6	49	8 M	0746	1.6	49	23 Tu	0740	1.6	49
	1029	0.5	15		0954	1.0	30		1025	1.3	40		0946	1.4	43		1124	1.5	46		1111	1.5	46
	1540	1.5	46		1507	1.6	49		1503	1.9	58		1438	1.9	58		1553	1.9	58		1544	2.0	61
	2243	-0.1	-3		2248	0.0	0		2320	-0.4	-12		2304	-0.2	-6								
9 Th	0512	1.6	49	24 F	0544	1.4	43	9 Sa	0646	1.7	52	24 Su	0659	1.6	49	9 Tu	0038	-0.3	-9	24 W	0014	-0.3	-9
	1105	0.8	24		1024	1.1	34		1103	1.4	43		1035	1.5	46		0827	1.6	49		0816	1.6	49
	1559	1.6	49		1527	1.7	52		1534	1.9	58		1512	1.9	58		1210	1.4	43		1159	1.4	43
	2331	-0.2	-6		2317	-0.1	-3						2340	-0.3	-9		1642	1.8	55		1637	1.9	58
10 F	0617	1.6	49	25 Sa	0632	1.5	46	10 Su	0007	-0.4	-12	25 M	0754	1.6	49	10 W	0118	-0.2	-6	25 Th	0053	-0.3	-9
	1136	1.0	30		1059	1.2	37		0757	1.6	49		1122	1.5	46		0859	1.5	46		0845	1.6	49
	1623	1.7	52		1553	1.7	52		1139	1.5	46		1553	1.9	58		1302	1.3	40		1250	1.3	40
					2348	-0.2	-6		1611	1.9	58						1734	1.6	49		1734	1.8	55
11 Sa	0018	-0.4	-12	26 Su	0730	1.4	43	11 M	0053	-0.4	-12	26 Tu	0018	-0.3	-9	11 Th	0158	0.0	0	26 F	0134	-0.1	-3
	0733	1.5	46		1135	1.2	37		0902	1.6	49		0847	1.6	49		0928	1.5	46		0909	1.5	46
	1202	1.2	37		1624	1.8	55		1216	1.4	43		1207	1.4	43		1413	1.1	34		1354	1.1	34
	1650	1.7	52						1652	1.8	55		1639	1.8	55		1831	1.4	43		1838	1.6	49
12 Su	0107	-0.4	-12	27 M	0023	-0.2	-6	12 Tu	0144	-0.2	-6	27 W	0101	-0.3	-9	12 F	0238	0.2	6	27 Sa	0218	0.1	3
	0902	1.4	43		0842	1.4	43		0949	1.5	46		0930	1.6	49		0955	1.5	46		0930	1.5	46
	1227	1.2	37		1213	1.3	40		1305	1.4	43		1257	1.4	43		1541	1.0	30		1515	0.9	27
	1722	1.7	52		1700	1.7	52		1738	1.6	49		1730	1.7	52		1955	1.2	37		2005	1.4	43
13 M	0206	-0.3	-9	28 Tu	0106	-0.2	-6	13 W	0240	-0.1	-3	28 Th	0151	-0.2	-6	13 Sa	0319	0.4	12	28 Su	0305	0.3	9
	1017	1.4	43		0946	1.4	43		1028	1.4	43		1006	1.5	46		1021	1.5	46		0951	1.5	46
	1255	1.3	40		1257	1.3	40		1429	1.3	40		1405	1.3	40		1710	0.8	24		1638	0.6	18
	1757	1.6	49		1741	1.7	52		1833	1.4	43		1829	1.6	49	O	2146	1.0	30	O	2152	1.2	37
14 Tu	0316	-0.2	-6	29 W	0203	-0.2	-6	14 Th	0340	0.1	3	29 F	0249	-0.1	-3	14 Su	0359	0.5	15	29 M	0353	0.6	18
	1128	1.3	40		1044	1.4	43		1105	1.4	43		1039	1.5	46		1046	1.5	46		1015	1.6	49
	1354	1.2	37		1401	1.3	40		1623	1.1	34		1533	1.1	34		1824	0.6	18		1758	0.3	9
O	1843	1.4	43		1831	1.6	49	O	2006	1.2	37	O	1952	1.4	43	O	2346	1.0	30				
15 W	0432	-0.1	-3	30 Th	0315	-0.1	-3	15 F	0441	0.2	6	30 Sa	0350	0.1	3	15 M	0444	0.7	21	30 Tu	0000	1.2	37
	1234	1.3	40		1142	1.4	43		1142	1.4	43		1108	1.5	46		1109	1.5	46		0447	0.9	27
	1635	1.2	37		1537	1.3	40		1803	0.9	27		1701	0.9	27		1913	0.3	9		1043	1.6	49
	2011	1.3	40	O	1948	1.5	46		2204	1.1	34		2136	1.3	4								

Apalachicola, Florida, 2020

Times and Heights of High and Low Waters

July				August				September																							
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																		
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm																	
1 W	0210	1.3	40		16 Th	0311	1.3	40		1 Sa	0436	1.7	52		16 Su	0410	1.8	55		1 Tu	0422	1.7	52		16 W	0359	1.8	55			
	0553	1.2	37			0511	1.2	37			0746	1.6	49			0736	1.6	49				0915	1.3	40			0849	1.3	40		
	1116	1.7	52			1048	1.7	52			1228	1.9	58			1207	2.0	61				1440	2.0	61			1421	2.2	67		
	1953	-0.2	-6			2001	0.0	0			2122	-0.3	-9			2100	-0.1	-3				2220	0.4	12			2154	0.3	9		
2 Th	0335	1.5	46		17 F	0405	1.5	46		2 Su	0500	1.7	52		17 M	0441	1.8	55		2 W	0437	1.8	55		17 Th	0412	1.8	55			
	0658	1.4	43			0643	1.4	43			0832	1.5	46			0818	1.6	49				0956	1.2	37			0934	1.1	34		
	1155	1.8	55			1129	1.8	55			1329	2.0	61			1313	2.1	64				1526	2.0	61			1520	2.2	67		
	2042	-0.4	-12			2041	-0.1	-3			2207	-0.2	-6			2143	-0.1	-3				2248	0.5	15		●	2234	0.5	15		
3 F	0440	1.6	49		18 Sa	0447	1.6	49		3 M	0521	1.7	52		18 Tu	0507	1.8	55		3 Th	0450	1.8	55		18 F	0423	1.8	55			
	0746	1.5	46			0739	1.5	46			0917	1.5	46			0900	1.5	46				1036	1.1	34			1024	0.9	27		
	1239	1.9	58			1220	1.9	58			1422	2.0	61			1411	2.2	67				1610	1.9	58			1620	2.2	67		
	2131	-0.4	-12			2122	-0.2	-6		○	2247	-0.1	-3		●	2225	0.0	0				2309	0.7	21			2310	0.8	24		
4 Sa	0526	1.7	52		19 Su	0523	1.7	52		4 Tu	0540	1.7	52		19 W	0526	1.7	52		4 F	0502	1.8	55		19 Sa	0437	1.9	58			
	0829	1.6	49			0823	1.6	49			1007	1.4	43			0947	1.4	43				1113	1.0	30			1114	0.7	21		
	1327	2.0	61			1313	2.0	61			1512	2.0	61			1506	2.2	67				1654	1.9	58			1723	2.1	64		
○	2219	-0.4	-12			2204	-0.3	-9			2321	0.1	3			2303	0.1	3				2327	0.8	24			2342	1.0	30		
5 Su	0601	1.7	52		20 M	0556	1.7	52		5 W	0557	1.7	52		20 Th	0540	1.7	52		5 Sa	0515	1.9	58		20 Su	0455	1.9	58			
	0917	1.6	49			0909	1.6	49			1054	1.3	40			1039	1.2	37				1146	0.8	24			1204	0.5	15		
	1414	2.0	61			1404	2.0	61			1600	1.9	58			1603	2.2	67				1739	1.8	55			1831	1.9	58		
	2304	-0.4	-12		●	2245	-0.3	-9			2347	0.2	6			2339	0.2	6				2346	0.9	27							
6 M	0631	1.7	52		21 Tu	0625	1.7	52		6 Th	0613	1.7	52		21 F	0551	1.7	52		6 Su	0531	1.9	58		21 M	0009	1.2	37			
	1017	1.5	46			1002	1.5	46			1135	1.1	34			1129	1.0	30				1220	0.7	21			0518	2.0	61		
	1502	1.9	58			1456	2.1	64			1647	1.8	55			1702	2.1	64				1830	1.7	52			1257	0.3	9		
	2343	-0.3	-9			2324	-0.2	-6															2000	1.8	55			2000	1.8	55	
7 Tu	0658	1.6	49		22 W	0649	1.7	52		7 F	0008	0.3	9		22 Sa	0011	0.5	15		7 M	0008	1.0	30		22 Tu	0033	1.4	43			
	1110	1.4	43			1056	1.4	43			0628	1.7	52			0605	1.7	52				0550	1.9	58			0544	2.1	64		
	1552	1.9	58			1550	2.0	61			1215	1.0	30			1219	0.8	24				1256	0.6	18			1401	0.3	9		
											1734	1.7	52			1804	1.9	58				1940	1.6	49			2150	1.7	52		
8 W	0017	-0.1	-3		23 Th	0001	-0.2	-6		8 Sa	0028	0.5	15		23 Su	0040	0.7	21		8 Tu	0034	1.2	37		23 W	0052	1.6	49			
	0723	1.6	49			0709	1.6	49			0644	1.7	52			0623	1.8	55				0612	1.9	58			0616	2.0	61		
	1156	1.3	40			1145	1.3	40			1257	0.9	27			1315	0.6	18				1342	0.6	18			1521	0.2	6		
	1643	1.8	55			1647	2.0	61			1826	1.5	46			1920	1.7	52				2120	1.5	46		○					
9 Th	0046	0.0	0		24 F	0035	0.0	0		9 Su	0048	0.6	18		24 M	0106	1.0	30		9 W	0103	1.3	40		24 Th	0659	2.0	61			
	0747	1.6	49			0726	1.6	49			0704	1.7	52			0646	1.8	55				0640	1.9	58			1646	0.2	6		
	1242	1.1	34			1235	1.1	34			1345	0.8	24			1424	0.5	15				1447	0.5	15							
	1734	1.6	49			1746	1.8	55			1934	1.4	43			2109	1.5	46				2306	1.5	46							
10 F	0112	0.2	6		25 Sa	0109	0.2	6		10 M	0111	0.8	24		25 Tu	0129	1.2	37		10 Th	0139	1.4	43		25 F	0813	1.9	58			
	0811	1.5	46			0744	1.6	49			0726	1.7	52			0716	1.9	58				0717	1.9	58			1807	0.2	6		
	1336	1.0	30			1335	0.9	27			1447	0.6	18			1547	0.3	9			○	1614	0.5	15							
	1828	1.4	43			1854	1.6	49			2117	1.2	37		○	2317	1.5	46			○										
11 Sa	0137	0.3	9		26 Su	0143	0.4	12		11 Tu	0138	1.0	30		26 W	0141	1.4	43		11 F	0813	1.9	58		26 Sa	0209	1.7	52			
	0835	1.6	49			0806	1.6	49			0754	1.7	52			0756	1.9	58				1748	0.4	12			0604	1.6	49		
	1445	0.9	27			1450	0.7	21		○	1602	0.5	15			1713	0.2	6								0953	1.8	55			
	1941	1.2	37			2030	1.4	43			2317	1.2	37													1909	0.2	6			
12 Su	0204	0.5	15		27 M	0217	0.7	21		12 W	0209	1.1	34		27 Th	0851	1.9	58		12 Sa	0214	1.7	52		27 Su	0225	1.7	52			
	0858	1.6	49			0833	1.7	52			0829	1.8	55			1832	0.1	3				0450	1.6	49			0711	1.4	43		
	1603	0.7	21			1613	0.4	12			1728	0.4	12										0927	1.9	58			1138	1.8	55	
○	2127	1.1	34		○	2226	1.2	37															1857	0.2	6			1958	0.3	9	
13 M	0235	0.7	21		28 Tu	0251	1.0	30		13 Th	0911	1.8	55		28 F	0959	1.9	58		13 Su	0247	1.8	55		28 M	0243	1.7	52			

Apalachicola, Florida, 2020

Times and Heights of High and Low Waters

October				November				December			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft	h m	ft	h m	ft	h m	ft	h m	ft	h m	ft
1 Th	0328 1.8 55 0943 0.9 27 1541 1.9 58 2204 0.9 27	16 F	0255 1.8 55 0924 0.6 18 1540 2.0 61 2157 0.9 27	1 Su	0246 1.8 55 1032 0.2 6 1732 1.7 52 2205 1.3 40	16 M	0240 1.9 58 1056 -0.4 -12 1821 1.7 52 2243 1.4 43	1 Tu	0222 1.6 49 1051 -0.3 -9 1836 1.4 43 2225 1.2 37	16 W	0253 1.6 49 1140 -0.8 -24 1914 1.3 40 2312 1.1 34
2 F	0339 1.9 58 1018 0.8 24 1625 1.9 58 2224 1.0 30	17 Sa	0311 1.9 58 1013 0.3 9 1646 2.0 61 2236 1.2 37	2 M	0306 1.9 58 1101 0.1 3 1818 1.6 49 2241 1.4 43	17 Tu	0313 1.9 58 1146 -0.5 -15 1927 1.6 49 2322 1.5 46	2 W	0256 1.6 49 1125 -0.4 -12 1921 1.4 43 2311 1.2 37	17 Th	0343 1.6 49 1223 -0.7 -21 1953 1.2 37 2356 1.0 30
3 Sa	0350 1.9 58 1051 0.7 21 1708 1.8 55 2245 1.2 37	18 Su	0331 2.0 61 1103 0.1 3 1752 2.0 61 2311 1.4 43	3 Tu	0331 1.9 58 1132 0.1 3 1910 1.6 49 2319 1.4 43	18 W	0353 1.9 58 1235 -0.4 -12 2035 1.6 49	3 Th	0337 1.6 49 1201 -0.4 -12 2009 1.4 43 2353 1.2 37	18 F	0436 1.4 43 1304 -0.6 -18 2027 1.1 34
4 Su	0406 2.0 61 1120 0.6 18 1754 1.8 55 2309 1.3 40	19 M	0356 2.0 61 1153 0.0 0 1904 1.9 58 2342 1.5 46	4 W	0403 1.9 58 1205 0.0 0 2016 1.6 49 2359 1.4 43	19 Th	0001 1.4 43 0438 1.8 55 1326 -0.3 -9 2126 1.5 46	4 F	0424 1.6 49 1239 -0.4 -12 2052 1.3 40	19 Sa	0042 0.8 24 0531 1.3 40 1344 -0.4 -12 2055 1.1 34
5 M	0425 2.0 61 1150 0.5 15 1846 1.7 52 2338 1.3 40	20 Tu	0426 2.1 64 1244 0.0 0 2037 1.8 55	5 Th	0440 1.9 58 1246 0.0 0 2121 1.6 49	20 F	0047 1.3 40 0528 1.7 52 1423 -0.2 -6 2204 1.4 43	5 Sa	0038 1.1 34 0514 1.5 46 1323 -0.4 -12 2128 1.2 37	20 Su	0140 0.7 21 0629 1.1 34 1423 -0.2 -6 2121 1.0 30
6 Tu	0449 2.0 61 1223 0.4 12 1958 1.7 52	21 W	0010 1.6 49 0500 2.1 64 1343 0.0 0 2157 1.7 52	6 F	0041 1.4 43 0522 1.8 55 1337 0.0 0 2214 1.5 46	21 Sa	0155 1.2 37 0627 1.5 46 1522 0.0 0 2237 1.3 40	6 Su	0133 1.0 30 0610 1.4 43 1414 -0.3 -9 2159 1.2 37	21 M	0256 0.5 15 0748 0.9 27 1500 0.0 0 2145 1.0 30
7 W	0010 1.4 43 0517 2.0 61 1303 0.3 9 2127 1.6 49	22 Th	0041 1.6 49 0540 2.0 61 1454 0.1 3 2302 1.6 49	7 Sa	0138 1.4 43 0611 1.7 52 1444 0.0 0 2305 1.5 46	22 Su	0337 1.0 30 0755 1.2 37 1621 0.2 6 2310 1.3 40	7 M	0247 0.9 27 0722 1.2 37 1510 -0.2 -6 2226 1.2 37	22 Tu	0420 0.3 9 0933 0.7 21 1537 0.2 6 2209 1.0 30
8 Th	0046 1.5 46 0550 2.0 61 1359 0.3 9 2246 1.6 49	23 F	0136 1.5 46 0630 1.8 55 1611 0.2 6	8 Su	0304 1.3 40 0720 1.6 49 1558 0.1 3 2352 1.5 46	23 M	0515 0.8 24 0952 1.1 34 1720 0.3 9 2341 1.3 40	8 Tu	0411 0.7 21 0901 1.0 30 1609 0.0 0 2252 1.2 37	23 W	0545 0.1 3 1128 0.6 18 1618 0.4 12 2234 1.1 34
9 F	0136 1.5 46 0630 1.9 58 1519 0.3 9	24 Sa	0002 1.6 49 0353 1.5 46 0758 1.6 49 1725 0.3 9	9 M	0438 1.2 37 0901 1.5 46 1711 0.2 6	24 Tu	0631 0.6 18 1148 1.0 30 1815 0.5 15	9 W	0534 0.4 12 1043 1.0 30 1713 0.3 9 2319 1.2 37	24 Th	0650 -0.1 -3 1338 0.7 21 1712 0.6 18 2259 1.1 34
10 Sa	0012 1.7 52 0305 1.6 49 0734 1.8 55 1650 0.3 9	25 Su	0044 1.5 46 0554 1.3 40 0958 1.5 46 1830 0.4 12	10 Tu	0028 1.5 46 0602 1.0 30 1038 1.4 43 1818 0.3 9	25 W	0010 1.3 40 0721 0.3 9 1331 1.1 34 1859 0.6 18	10 Th	0642 0.1 3 1245 1.0 30 1819 0.5 15 2347 1.3 40	25 F	0736 -0.3 -9 1455 0.8 24 1822 0.7 21 2326 1.1 34
11 Su	0113 1.7 52 0454 1.6 49 0909 1.8 55 1810 0.3 9	26 M	0113 1.5 46 0658 1.1 34 1155 1.5 46 1919 0.5 15	11 W	0053 1.5 46 0700 0.7 21 1221 1.4 43 1912 0.4 12	26 Th	0033 1.3 40 0801 0.1 3 1437 1.2 37 1934 0.8 24	11 F	0734 -0.2 -6 1423 1.1 34 1915 0.7 21	26 Sa	0815 -0.5 -15 1554 1.0 30 1918 0.9 27 2358 1.2 37
12 M	0148 1.7 52 0624 1.4 43 1039 1.8 55 1909 0.3 9	27 Tu	0135 1.6 49 0741 0.8 24 1326 1.5 46 1957 0.6 18	12 Th	0111 1.5 46 0746 0.4 12 1349 1.5 46 1957 0.6 18	27 F	0053 1.4 43 0837 0.0 0 1534 1.2 37 2002 0.9 27	12 Sa	0018 1.4 43 0822 -0.5 -15 1540 1.3 40 2002 0.9 27	27 Su	0852 -0.6 -18 1642 1.1 34 2002 0.9 27
13 Tu	0212 1.7 52 0716 1.3 40 1211 1.8 55 1955 0.3 9	28 W	0153 1.6 49 0819 0.7 21 1425 1.6 49 2027 0.8 24	13 F	0129 1.6 49 0830 0.1 3 1501 1.6 49 2038 0.9 27	28 Sa	0110 1.5 46 0911 -0.2 -6 1626 1.3 40 2029 1.1 34	13 Su	0051 1.5 46 0911 -0.7 -21 1647 1.3 40 2045 1.1 34	28 M	0035 1.2 37 0929 -0.6 -18 1721 1.2 37 2043 1.0 30
14 W	0230 1.7 52 0757 1.0 30 1331 1.9 58 2037 0.5 15	29 Th	0208 1.7 52 0854 0.5 15 1514 1.6 49 2052 0.9 27	14 Sa	0148 1.7 52 0916 -0.1 -3 1611 1.7 52 2118 1.1 34	29 Su	0130 1.5 46 0945 -0.2 -6 1712 1.4 43 2059 1.2 37	14 M	0128 1.6 49 1002 -0.8 -24 1742 1.4 43 2131 1.2 37	29 Tu	0116 1.3 40 1007 -0.7 -21 1756 1.2 37 2128 1.0 30
15 Th	0243 1.7 52 0839 0.8 24 1437 2.0 61 2117 0.7 21	30 F	0219 1.7 52 0928 0.4 12 1602 1.6 49 2114 1.1 34	15 Su	0212 1.8 55 1006 -0.3 -9 1718 1.7 52 2200 1.3 40	30 M	0153 1.6 49 1018 -0.3 -9 1755 1.4 43 2138 1.2 37	15 Tu	0209 1.6 49 1053 -0.8 -24 1830 1.4 43 2223 1.2 37	30 W	0158 1.3 40 1045 -0.7 -21 1830 1.2 37 2218 1.0 30
		31 Sa	0231 1.8 55 1001 0.3 9 1648 1.7 52 2136 1.2 37							31 Th	0244 1.4 43 1121 -0.7 -21 1901 1.1 34 2304 0.9 27

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Pensacola, Florida, 2020

Times and Heights of High and Low Waters

April				May				June																												
Time	Height			Time	Height			Time	Height			Time	Height																							
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm																	
1 W	0255	-0.3	-9	43	16 Th	0356	-0.1	-3	37	1 F	0300	-0.3	-9	43	16 Sa	0229	0.2	6	27	1 M	0132	0.4	12	16 Tu	0748	1.2	37	3								
2 Th	0356	-0.4	-12	43	17 F	0425	0.0	0	34	2 Sa	0336	-0.1	-3	37	17 Su	0210	0.4	12	27	2 Tu	0814	1.2	37	17 W	0753	1.4	43	0								
3 F	0446	-0.4	-12	43	18 Sa	0437	0.1	3	27	3 Su	0359	0.1	3	30	18 M	0116	0.5	15	12	3 W	0818	1.4	43	18 Th	0812	1.5	46	-6								
4 Sa	0527	-0.3	-9	40	19 Su	0431	0.3	9	21	4 M	0400	0.4	12	24	19 Tu	0905	1.2	37	6	4 Th	0843	1.7	52	19 F	0842	1.6	49	-9								
5 Su	0600	-0.1	-3	34		1200	0.7	21	18	5 Tu	0310	0.7	21	6	20 W	0904	1.3	40	0	5 F	0920	1.8	55	20 Sa	0920	1.7	52	-9								
6 M	0621	0.2	6	15		1619	0.6	15	15	6 W	0922	1.3	40	-3	21 Th	0916	1.5	46	-3	6 Sa	1005	1.9	58	21 Su	1003	1.8	55	-12								
7 Tu	0614	0.5	15	18		2119	0.7	21	24	7 Th	0941	1.5	46	-9	22 F	0939	1.6	49	-6	7 Su	1054	1.9	58	22 M	1049	1.8	55	-15								
8 W	0142	0.8	24	21	22 W	1019	1.1	34	3	8 F	1015	1.7	52	-12	23 Sa	1010	1.6	49	-9	8 M	1142	1.8	55	23 Tu	1135	1.8	55	-15								
9 Th	0452	0.7	21	27	23 Th	1025	1.3	40	0	9 Sa	1058	1.8	55	-12	24 Su	1050	1.7	52	-9	9 Tu	1227	1.7	52	24 W	1220	1.8	55	-12								
10 F	1037	0.9	27	0	24 F	1042	1.4	43	-3	10 Su	1146	1.8	55	-12	25 M	1134	1.7	52	-12	10 W	0004	-0.3	-9	25 Th	1303	1.6	49	-46								
11 Sa	1920	0.0	0	0	25 Sa	1109	1.5	46	-3	11 M	1239	1.7	52	52	26 Tu	1222	1.7	52	52	11 Th	0032	-0.2	-6	26 F	0004	-0.2	-6	-43								
12 Su	1257	1.6	49	49	26 Su	1145	1.5	46	-6	12 Tu	0036	-0.3	-9	49	27 W	0002	-0.4	-12	52	12 F	0043	0.0	0	27 Sa	0020	0.0	0	34								
13 M	1356	1.5	46	46	27 M	1231	1.6	49	49	13 W	0129	-0.2	-6	46	28 Th	0048	-0.4	-12	49	13 Sa	0037	0.2	6	28 Su	0013	0.3	9	24								
14 Tu	0207	-0.3	-9	46	28 Tu	0011	-0.2	-6	49	14 Th	0207	-0.1	-3	40	29 F	0124	-0.3	-9	43	14 Su	0009	0.3	9	29 M	0709	1.0	30	9								
15 W	1502	1.5	46	46	29 W	0119	-0.3	-9	49	15 F	0207	-0.1	-3	40	30 Sa	0150	-0.1	-3	34	15 M	0803	1.1	34	30 Tu	0653	1.3	40	0								
16 Th	0310	-0.2	-6	43	30 Th	0215	-0.3	-9	46	16 Sa	0227	0.0	0	34	31 Su	0158	0.2	6	24																	
	1614	1.4	43	46		1529	1.5	46	46		1528	1.1	34			1035	0.8	24	21																	

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Pensacola, Florida, 2020

Times and Heights of High and Low Waters

July				August				September																					
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																
	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm													
1 W	0710	1.5	46	-6	16 Th	0658	1.5	46	-3	1 Sa	0831	1.9	58	-9	16 Su	0816	1.9	58	-6	1 Tu	1011	1.6	49	9	16 W	1008	1.7	52	12
	1751	-0.2	-6			1805	-0.1	-3			1955	-0.3	-9			1927	-0.2	-6			2012	0.3	9			1942	0.4	12	
2 Th	0744	1.7	52	-12	17 F	0739	1.6	49	-6	2 Su	0926	1.9	58	-6	17 M	0911	1.9	58	-6	2 W	1052	1.5	46	15	17 Th	1123	1.5	46	21
	1847	-0.4	-12			1854	-0.2	-6			2041	-0.2	-6			2009	-0.2	-6			2011	0.5	15			1954	0.7	21	
3 F	0829	1.8	55	-12	18 Sa	0826	1.7	52	-9	3 M	1014	1.8	55	-6	18 Tu	1004	1.9	58	-3	3 Th	1134	1.3	40	21	18 F	0051	0.8	24	21
	1946	-0.4	-12			1945	-0.3	-9			2117	-0.2	-6			2046	-0.1	-3			1954	0.7	21			0503	0.7	21	40
4 Sa	0919	1.9	58	-15	19 Su	0916	1.8	55	-12	4 Tu	1055	1.7	52	0	19 W	1056	1.8	55	0	4 F	0233	0.9	27	24	19 Sa	0503	0.7	21	30
	2045	-0.5	-15			2034	-0.4	-12			2139	0.0	0			2117	0.0	0			0536	0.8	24			1259	1.3	40	34
5 Su	1009	1.9	58	-12	20 M	1005	1.9	58	-12	5 W	1129	1.6	49	3	20 Th	1153	1.6	49	9	5 Sa	0132	1.0	30	24	20 Su	0719	0.6	18	43
	2137	-0.4	-12			2119	-0.4	-12			2149	0.1	3			2137	0.3	9			0757	0.8	24			0719	0.6	18	27
6 M	1057	1.8	55	-12	21 Tu	1052	1.9	58	-12	6 Th	1200	1.4	43	9	21 F	1300	1.4	43	18	6 Su	0117	1.2	37	21	21 M	0018	1.6	49	6
	2220	-0.4	-12			2157	-0.4	-12			2145	0.3	9			2135	0.6	18			0934	0.7	21			1043	0.2	6	
7 Tu	1138	1.7	52	-9	22 W	1138	1.8	55	-9	7 F	1228	1.2	37	15	22 Sa	0320	0.8	24	21	7 M	0123	1.3	40	18	22 Tu	0103	1.8	55	6
	2252	-0.3	-9			2230	-0.3	-9			2126	0.5	15			0706	0.7	21			1057	0.6	18			1222	0.2	6	
8 W	1212	1.6	49	-3	23 Th	1224	1.6	49	-3	8 Sa	1256	0.9	27	18	23 Su	0218	1.0	30	18	8 Tu	0144	1.5	46	15	23 W	0201	1.9	58	3
	2310	-0.1	-3			2253	-0.1	-3			2046	0.6	18			1013	0.6	18			1221	0.5	15			1357	0.1	3	
9 Th	1237	1.4	43	0	24 F	1313	1.4	43	6	9 Su	0420	1.0	30	21	24 M	0225	1.3	40	12	9 W	0221	1.6	49	12	24 Th	0311	1.9	58	3
	2314	0.0	0			2301	0.2	6			1923	0.7	21			1228	0.4	12			1348	0.4	12			1519	0.1	3	
10 F	1247	1.2	37	6	25 Sa	1412	1.0	30	15	10 M	0359	1.1	34	15	25 Tu	0301	1.6	49	6	10 Th	0315	1.6	49	9	25 F	0432	1.8	55	3
	2302	0.2	6			2236	0.5	15			1422	0.5	15			1411	0.2	6			1507	0.3	9			1626	0.1	3	
11 Sa	1121	0.9	27	12	26 Su	0546	0.9	27	18	11 Tu	0407	1.3	40	12	26 W	0355	1.7	52	3	11 F	0423	1.7	52	6	26 Sa	0557	1.8	55	6
	2229	0.4	12			1216	0.6	18			1503	0.4	12			1536	0.1	3			1614	0.2	6			1717	0.2	6	
12 Su	0712	0.9	27	15	27 M	0501	1.1	34	12	12 W	0436	1.4	43	6	27 Th	0502	1.8	55	0	12 Sa	0539	1.8	55	3	27 Su	0714	1.7	52	9
	2117	0.5	15			1441	0.4	12			1555	0.2	6			1649	0.0	0			1710	0.1	3			1753	0.3	9	
13 M	0624	1.1	34	12	28 Tu	0510	1.4	43	3	13 Th	0520	1.5	46	3	28 F	0617	1.8	55	0	13 Su	0651	1.9	58	0	28 M	0818	1.6	49	12
	1741	0.4	12			1553	0.1	3			1650	0.1	3			1754	0.0	0			1758	0.0	0			1813	0.4	12	
14 Tu	0615	1.2	37	6	29 W	0545	1.6	49	-3	14 F	0617	1.6	49	0	29 Sa	0729	1.8	55	0	14 M	0758	1.9	58	3	29 Tu	0915	1.5	46	18
	1700	0.2	6			1657	-0.1	-3			1746	0.0	0			1848	0.0	0			1839	0.1	3			1815	0.6	18	
15 W	0629	1.4	43	0	30 Th	0634	1.7	52	-6	15 Sa	0717	1.8	55	-3	30 Su	0833	1.8	55	3	15 Tu	0902	1.9	58	6	30 W	1014	1.3	40	24
	1724	0.0	0			1759	-0.2	-6			1839	-0.1	-3			1929	0.1	3			1914	0.2	6			1757	0.8	24	
					31 F	0732	1.8	55	-9					31 M	0926	1.8	55	6											
						1900	-0.3	-9							1958	0.2	6												

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Pensacola, Florida, 2020

Times and Heights of High and Low Waters

October				November				December																					
Time		Height		Time		Height		Time		Height		Time		Height															
h	m	ft	cm	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm										
1 Th ○	0005	1.0	30	16 F ●	0534	0.5	15	1 Su	0757	0.1	3	16 M	0842	-0.4	-12	1 Tu	0857	-0.4	-12	16 W	1011	-0.8	-24						
	0508	0.9	27		1346	1.1	34		2220	1.6	49		2237	1.9	58		2234	1.5	46		2330	1.6	49						
	1124	1.1	34		1548	1.0	30		2 M	0841	0.1		3	17 Tu	0955		-0.5	-15	2 W		0954	-0.4	-12	17 Th	1107	-0.7	-21		
	1719	0.9	27		2206	1.3	40			2248	1.7		52		2328		1.8	55			2316	1.6	49						
2 F	0638	0.7	21	17 Sa	0658	0.3	9	3 Tu	0935	0.0	0	18 W	1110	-0.4	-12	3 Th	1049	-0.5	-15	18 F	0017	1.4	43						
	1312	1.0	30		2220	1.6	49		2324	1.7	52		4 F	0001	1.6		49	19 Sa	0057		1.3	40							
	1603	0.9	27		18 Su	0815	0.1		3	4 W	1041			0.0	0		19 Th		0022		1.8	55	19 Sa	1217	-0.5	-15			
	2316	1.3	40			2253	1.8		55		0008		1.7	52	0117			1.7	52		0045	1.5		46	0126	1.0	30		
3 Sa	0741	0.6	18	19 M	0933	0.0	0	5 Th	1151	-0.1	-3	20 F	0117	1.7	52	5 Sa	1219	-0.5	-15	20 Su	1226	-0.3	-9						
	2319	1.4	43		0933	0.0	0		6 Tu	0058	1.7		52	21 Sa	0129		1.4	43	21 M		0126	0.8	24						
	4 Su	0835	0.5		15	2338	1.9			58	6 W		1254		-0.1		-3	21 Su			1252	-0.4	-12	21 M	1213	-0.1	-3		
		2358	1.6		49	20 Tu	1057		-0.1	-3			7 Sa	0153	1.7		52		22 Su		1408	0.0	0		22 Tu	2004	0.6	18	
5 M	0928	0.4	12	21 W	0032		1.9	58	7 Th	1345	-0.2	-6		22 M	0248	1.3	40	7 M		0213	1.2	37	22 Tu	2004		0.6	18		
	2358	1.6	49		1224	-0.1	-3	8 Su		1426	-0.1	-3	23 M		1405	0.2	6		8 Tu	1323	0.0	0		23 W	1925	0.8	24		
	6 Tu	1032	0.3		9	22 Th	0133			1.9	58	8 Su			0251	1.6	49			23 M	2318	0.8			24	8 Tu	0259	0.9	27	23 W	0933	0.1	3
		1152	0.3		9		1343	-0.1		-3	9 M		1458		0.0	0	24 Tu		0309		1.0	30		8 Tu	2207		0.6	18	23 W		1925	0.8	24
7 W	0035	1.7	52	23 F	0240	1.8	55	9 M	0357	1.5		46	24 Tu	1334	0.3	9		9 W	0307	0.5	15	24 Th	0539		-0.1	-3			
	1317	0.2	6		1447	0.0	0		10 Tu	1519	0.2	6		25 W	2128	0.9	27		9 W	0455	0.6		18	24 Th	1918	0.9	27		
	8 Th	0224	1.8		55	24 Sa	0352			1.7	52	10 Tu			0525	1.2	37			25 W	1210		0.4		12	9 W	1258	0.2	6	24 Th	1918	0.9	27
		1429	0.1		3		1532		0.1	3	11 Su			1519	0.2	6	25 W		2049		1.0		30	9 W	2018		0.7	21	24 Th		1918	0.9	27
9 F	0224	1.8	55	25 Su	0506	1.5	46	11 W	0734	1.0		30	26 Th	0559	0.2	6		10 Th	0416	0.2	6	25 F	0542		-0.3	-9			
	1429	0.1	3		1600	0.2	6		11 W	1518	0.5	15		26 Th	2037	1.1	34		10 Th	1947	1.0		30	25 F	1929	1.1	34		
	10 Sa	0335	1.8		55	26 M	0621			1.3	40	12 Th			2149	0.9	27			27 F	0621		0.0		0	11 F	0507	-0.2	-6	26 Sa	0608	-0.4	-12
		1526	0.1		3		1609		0.4	12	12 Th			0412	0.5	15	27 F		2042		1.3		40	12 Sa	1951		1.2	37	26 Sa		1953	1.2	37
11 Su	0452	1.8	55	27 Tu	0744	1.1	34	13 F	0528	0.2		6	28 Sa	0649	-0.1	-3		13 Su	0659	-0.6	-18	28 M	0729		-0.6	-18			
	1613	0.1	3		1555	0.6	18		13 F	2057	1.4	43		28 Sa	2057	1.4	43		13 Su	2059	1.6		49	28 M	2106	1.3	40		
	12 M	0612	1.7		52	2300	1.0			30	14 Sa	0631			-0.1	-3	29 Su			0724	-0.2		-6		14 M	0801	-0.7	-21	29 Tu	0819	-0.7	-21
		1651	0.2		6	2300	1.0		30	14 Sa		2116		1.6	49	29 Su			2122	1.5	46		14 M	2147		1.6	49	29 Tu		2150	1.4	43
13 Tu	0735	1.6	49	28 W	0439	0.8	24	15 Su	0735		-0.3	-9	30 M	0806	-0.3		-9	15 Tu	0907	-0.8	-24	30 W		0909	-0.7	-21			
	1721	0.3	9		0927	0.9	27		15 Su	2151	1.8	55		30 M	2155	1.5	46		15 Tu	2239	1.6		49	30 W	2234	1.4	43		
	14 W	0905	1.4		43	1515	0.7			21	15 Su	0735			-0.3	-9	30 M			2155	1.5		46		15 Tu	2239	1.6	49	30 W	2234	1.4	43
		1738	0.6		18	2210	1.1		34	15 Su		2151		1.8	55	30 M			2155	1.5	46		15 Tu	2239		1.6	49	30 W		2234	1.4	43
15 Th	0333	0.8	24	29 Th	0553	0.6	18	15 Su	0735		-0.3	-9	30 M	0806	-0.3		-9	15 Tu	0907	-0.8	-24	30 W		0909	-0.7	-21			
	1053	1.2	37		2152	1.3	40		15 Su	2151	1.8	55		30 M	2155	1.5	46		15 Tu	2239	1.6		49	30 W	2234	1.4	43		
	1727	0.9	27		30 F	0640	0.4			12	15 Su	2151			1.8	55	30 M			2155	1.5		46		15 Tu	2239	1.6	49	30 W	2234	1.4	43
	2227	1.0	30			2151	1.4		43	15 Su		2151		1.8	55	30 M			2155	1.5	46		15 Tu	2239		1.6	49	30 W		2234	1.4	43
16 Th	0333	0.8	24	31 Sa	0719	0.3	9	15 Su	0735		-0.3	-9	30 M	0806	-0.3		-9	15 Tu	0907	-0.8	-24	30 W		0909	-0.7	-21			
	1053	1.2	37		2201	1.5	46		15 Su	2151	1.8	55		30 M	2155	1.5	46		15 Tu	2239	1.6		49	30 W	2234	1.4	43		
	1727	0.9	27		31 Sa	0719	0.3			9	15 Su	0735			-0.3	-9	30 M			0806	-0.3		-9		15 Tu	0907	-0.8	-24	30 W	0909	-0.7	-21
	2227	1.0	30			2201	1.5		46	15 Su		2151		1.8	55	30 M			0806	-0.3	-9		15 Tu	0907		-0.8	-24	30 W		0909	-0.7	-21
17 F	0638	0.7	21	31 Sa	0719	0.3	9	15 Su	0735		-0.3	-9	30 M	0806	-0.3		-9	15 Tu	0907	-0.8	-24	30 W		0909	-0.7	-21			
	1312	1.0	30		2201	1.5	46		15 Su	2151	1.8	55		30 M	0806	-0.3	-9		15 Tu	0907	-0.8		-24	30 W	0909	-0.7	-21		
	1603	0.9	27		31 Sa	0719	0.3			9	15 Su	0735			-0.3	-9	30 M			0806	-0.3		-9		15 Tu	0907	-0.8	-24	30 W	0909	-0.7	-21
	2316	1.3	40			2201	1.5		46	15 Su		2151		1.8	55	30 M			0806	-0.3	-9		15 Tu	0907		-0.8	-24	30 W		0909	-0.7	-21

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Dauphin Island, Alabama, 2020

Times and Heights of High and Low Waters

January				February				March																						
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																	
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm																
1 W	0027	0.7	21		16 Th	0050	0.5	15		1 Sa	0437	-0.1	-3		16 Su	0337	-0.4	-12		1 Su	0137	-0.1	-3		16 M	0250	-0.3	-9		
	1143	-0.1	-3			1105	0.0	0			1654	0.6	18			1633	1.0	30			1457	0.9	27			1537	1.2	37		
	2337	0.5	15			2007	0.3	9																						
2 Th	1056	0.0	0		17 F	0823	0.1	3		2 Su	0400	-0.2	-6		17 M	0434	-0.5	-15		2 M	0227	-0.3	-9		17 Tu	0400	-0.3	-9		
	2023	0.5	15			1747	0.5	15			1710	0.8	24			1728	1.1	34			1542	1.0	30			1647	1.2	37		
3 F	0932	0.0	0		18 Sa	0507	-0.2	-6		3 M	0421	-0.4	-12		18 Tu	0534	-0.5	-15		3 Tu	0324	-0.4	-12		18 W	0508	-0.3	-9		
	1900	0.6	18			1745	0.8	24			1739	0.9	27			1825	1.1	34			1637	1.1	34			1759	1.1	34		
4 Sa	0638	0.0	0		19 Su	0512	-0.4	-12		4 Tu	0501	-0.5	-15		19 W	0636	-0.6	-18		4 W	0425	-0.5	-15		19 Th	0611	-0.2	-6		
	1840	0.7	21			1813	1.0	30			1819	1.1	34			1923	1.1	34			1738	1.2	37			1907	1.1	34		
5 Su	0533	-0.2	-6		20 M	0552	-0.6	-18		5 W	0553	-0.6	-18		20 Th	0737	-0.5	-15		5 Th	0529	-0.5	-15		20 F	0705	-0.1	-3		
	1846	0.9	27			1851	1.1	34			1905	1.2	37			2017	1.1	34			1840	1.3	40			2008	1.0	30		
6 M	0543	-0.4	-12		21 Tu	0641	-0.7	-21		6 Th	0651	-0.7	-21		21 F	0832	-0.5	-15		6 F	0631	-0.6	-18		21 Sa	0749	0.0	0		
	1905	1.1	34			1935	1.2	37			1956	1.3	40			2107	1.0	30			1942	1.3	40			2102	0.9	27		
7 Tu	0615	-0.5	-15		22 W	0736	-0.7	-21		7 F	0751	-0.8	-24		22 Sa	0917	-0.4	-12		7 Sa	0732	-0.5	-15		22 Su	0812	0.1	3		
	1934	1.2	37			2022	1.2	37			2048	1.3	40			2151	0.9	27			2043	1.2	37			2154	0.8	24		
8 W	0659	-0.7	-21		23 Th	0833	-0.7	-21		8 Sa	0850	-0.8	-24		23 Su	0949	-0.3	-9		8 Su	0830	-0.4	-12		23 M	0734	0.2	6		
	2012	1.3	40			2108	1.2	37			2140	1.3	40			2230	0.8	24			2144	1.1	34			2250	0.6	18		
9 Th	0753	-0.8	-24		24 F	0926	-0.6	-18		9 Su	0945	-0.7	-21		24 M	0959	-0.1	-3		9 M	0928	-0.2	-6		24 Tu	0603	0.4	12		
	2054	1.4	43			2152	1.1	34			2231	1.2	37			2304	0.7	21			2249	0.9	27			1038	0.5	15		
10 F	0851	-0.8	-24		25 Sa	1010	-0.6	-18		10 M	1034	-0.6	-18		25 Tu	0925	0.0	0		10 Tu	1049	0.0	0		25 W	0015	0.5	15		
	2141	1.4	43			2232	1.0	30			2321	1.0	30			2338	0.5	15												
11 Sa	0949	-0.9	-27		26 Su	1043	-0.5	-15		11 Tu	1113	-0.4	-12		26 W	0811	0.2	6		11 W	0008	0.7	21		26 Th	1115	0.8	24		
	2228	1.4	43			2306	0.9	27							1437	0.3	9			1809	0.2	6			2103	0.1	3			
															1738	0.2	6													
12 Su	1042	-0.8	-24		27 M	1059	-0.4	-12		12 W	0010	0.7	21		27 Th	0016	0.3	9		12 Th	1136	0.6	18		27 F	1141	0.9	27		
	2315	1.3	40			2333	0.7	21			1111	-0.1	-3			0636	0.2	6			2148	0.0	0			2217	0.0	0		
																1348	0.4	12												
																2307	0.2	6												
13 M	1127	-0.7	-21		28 Tu	1054	-0.2	-6		13 Th	0058	0.4	12		28 F	1358	0.6	18		13 F	1234	0.9	27		28 Sa	1211	1.0	30		
	2359	1.1	34			2349	0.6	18			0847	0.2	6																	
											1503	0.3	9																	
14 Tu	1159	-0.5	-15		29 W	1019	-0.1	-3		14 F	0228	0.1	3		29 Sa	0049	0.0	0		14 Sa	0005	-0.1	-3		29 Su	1249	1.1	34		
						2329	0.4	12			1503	0.6	18			1422	0.7	21			1331	1.1	34							
15 W	0036	0.8	24		30 Th	0917	0.0	0		15 Sa	0244	-0.2	-6																	
	1205	-0.3	-9			1821	0.3	9			1543	0.8	24																	
					31 F	0735	0.0	0																						
						1701	0.5	15																						

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Dauphin Island, Alabama, 2020

Times and Heights of High and Low Waters

April				May				June																				
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height															
	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm												
1 W	0245	-0.3	-9	40	16 Th	0417	0.0	0	34	1 F	0305	-0.2	-6	40	16 Sa	0242	0.3	9	24	1 M	0058	0.4	12	16 Tu	0719	1.1	34	3
2 Th	0350	-0.3	-9	40	17 F	0458	0.1	3	30	2 Sa	0348	0.0	0	34	17 Su	0153	0.4	12	21	2 Tu	0747	1.0	30	17 W	0730	1.3	40	-3
3 F	0451	-0.3	-9	40	18 Sa	0515	0.2	6	24	3 Su	0414	0.2	6	27	18 M	0012	0.5	15	27	3 W	0755	1.3	40	18 Th	0750	1.4	43	-6
4 Sa	0547	-0.2	-6	37	19 Su	0450	0.4	12	21	4 M	0357	0.4	12	18	19 Tu	0821	1.0	30	6	4 Th	0823	1.5	46	19 F	0817	1.5	46	-9
5 Su	0637	0.0	0	30	20 M	0337	0.5	15	21	5 Tu	0150	0.6	18	24	20 W	0832	1.2	37	0	5 F	0900	1.6	49	20 Sa	0850	1.6	49	-12
6 M	0717	0.2	6	24	21 Tu	0919	0.8	24	9	6 W	0845	1.1	34	0	21 Th	0851	1.3	40	-3	6 Sa	0942	1.7	52	21 Su	0927	1.6	49	-12
7 Tu	0639	0.4	12	15	22 W	0934	1.0	30	3	7 Th	0915	1.4	43	-6	22 F	0916	1.5	46	-6	7 Su	1026	1.7	52	22 M	1009	1.7	52	-12
8 W	0929	0.8	24	3	23 Th	0954	1.2	37	0	8 F	0954	1.5	46	-9	23 Sa	0945	1.5	46	-9	8 M	1113	1.6	49	23 Tu	1053	1.6	49	-12
9 Th	1012	1.1	34	0	24 F	1018	1.3	40	-3	9 Sa	1038	1.6	49	-9	24 Su	1020	1.6	49	-9	9 Tu	1159	1.5	46	24 W	1137	1.6	49	-9
10 F	1059	1.3	40	-6	25 Sa	1047	1.4	43	-3	10 Su	1126	1.6	49	-9	25 M	1100	1.6	49	-9	10 W	0024	-0.2	-6	25 Th	1219	1.4	43	
11 Sa	1150	1.4	43	-6	26 Su	1122	1.4	43	-6	11 M	1216	1.6	49		26 Tu	1145	1.6	49	-9	11 Th	0056	-0.1	-3	26 F	0021	-0.2	-6	37
12 Su	1244	1.4	43		27 M	1205	1.5	46		12 Tu	0045	-0.2	-6	43	27 W	1234	1.5	46		12 F	0107	0.1	3	27 Sa	0035	0.0	0	30
13 M	0102	-0.2	-6	43	28 Tu	0005	-0.2	-6	46	13 W	0142	-0.1	-3	40	28 Th	0051	-0.3	-9	43	13 Sa	0047	0.2	6	28 Su	0009	0.3	9	21
14 Tu	0216	-0.2	-6	40	29 W	0111	-0.2	-6	46	14 Th	0225	0.0	0	34	29 F	0133	-0.2	-6	40	14 Su	0826	0.8	24	29 M	0705	0.9	27	9
15 W	0321	-0.1	-3	37	30 Th	0212	-0.2	-6	43	15 F	0248	0.1	3	30	30 Sa	0201	0.0	0	30	15 M	0727	0.9	27	30 Tu	0639	1.1	34	0
														31 Su	0200	0.2	6	21										

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Dauphin Island, Alabama, 2020

Times and Heights of High and Low Waters

July				August				September																					
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 W	0655	1.4	43	-6	16 Th	0639	1.4	43	-6	1 Sa	0759	1.7	52	-6	16 Su	0731	1.7	52	-6	1 Tu	0936	1.5	46	12	16 W	0912	1.6	49	12
	1814	-0.2	-6			1753	-0.2	-6			2011	-0.2	-6			1920	-0.2	-6			2131	0.4	12			2026	0.4	12	
2 Th	0727	1.5	46	-9	17 F	0712	1.5	46	-6	2 Su	0849	1.7	52	-6	17 M	0823	1.7	52	-6	2 W	1020	1.3	40	15	17 Th	1022	1.4	43	21
	1902	-0.3	-9			1838	-0.2	-6			2108	-0.2	-6			2016	-0.2	-6			2142	0.5	15			2059	0.7	21	
3 F	0807	1.7	52	-12	18 Sa	0751	1.6	49	-9	3 M	0937	1.6	49	-3	18 Tu	0914	1.7	52	-3	3 Th	1103	1.2	37	21	18 F	1158	1.1	34	27
	1958	-0.4	-12			1931	-0.3	-9			2156	-0.1	-3			2107	-0.1	-3			2035	0.7	21			1841	0.9	27	30
4 Sa	0851	1.7	52	-12	19 Su	0834	1.7	52	-12	4 Tu	1021	1.5	46	0	19 W	1005	1.6	49	3	4 F	1153	1.0	30	24	19 Sa	0649	0.7	21	40
	2057	-0.4	-12			2026	-0.4	-12			2232	0.0	0			2154	0.1	3			1847	0.8	24			2309	1.3	40	
5 Su	0937	1.7	52	-12	20 M	0919	1.7	52	-12	5 W	1059	1.4	43	6	20 Th	1057	1.4	43	9	5 Sa	0023	0.9	27	21	20 Su	0939	0.5	15	
	2154	-0.4	-12			2120	-0.4	-12			2251	0.2	6			2229	0.3	9			0730	0.7	21						
6 M	1023	1.6	49	-9	21 Tu	1005	1.7	52	-9	6 Th	1131	1.2	37	9	21 F	1151	1.2	37	18	6 Su	0039	1.1	34	18	21 M	0000	1.5	46	9
	2245	-0.3	-9			2210	-0.3	-9			2239	0.3	9			2216	0.6	18			1030	0.6	18			1131	0.3	9	
7 Tu	1105	1.5	46	-6	22 W	1051	1.6	49	-6	7 F	1155	1.0	30	15	22 Sa	1301	0.9	27	24	7 M	0105	1.2	37	15	22 Tu	0055	1.7	52	6
	2324	-0.2	-6			2252	-0.2	-6			2143	0.5	15			1931	0.8	24			1157	0.5	15			1256	0.2	6	
8 W	1143	1.3	40	0	23 Th	1134	1.4	43	0	8 Sa	1148	0.8	24	18	23 Su	0147	0.9	27	18	8 Tu	0137	1.4	43	12	23 W	0154	1.8	55	3
	2348	0.0	0			2323	0.0	0			2009	0.6	18			1136	0.6	18			1255	0.4	12			1412	0.1	3	
9 Th	1213	1.2	37	3	24 F	1212	1.2	37	6	9 Su	0411	0.8	24	18	24 M	0210	1.2	37	9	9 W	0216	1.5	46	9	24 Th	0259	1.8	55	3
	2350	0.1	3			2326	0.2	6			1728	0.6	18			1342	0.3	9			1350	0.3	9			1524	0.1	3	
10 F	1227	1.0	30	9	25 Sa	1231	0.9	27	12	10 M	0349	1.0	30	12	25 Tu	0256	1.4	43	6	10 Th	0304	1.5	46	6	25 F	0410	1.8	55	6
	2318	0.3	9			2223	0.4	12			1459	0.4	12			1449	0.2	6			1448	0.2	6			1632	0.2	6	
11 Sa	1129	0.8	24	12	26 Su	0656	0.7	21	15	11 Tu	0402	1.2	37	9	26 W	0350	1.6	49	0	11 F	0359	1.6	49	3	26 Sa	0522	1.7	52	6
	2209	0.4	12			1923	0.5	15			1512	0.3	9			1553	0.0	0			1549	0.1	3			1733	0.2	6	
12 Su	0707	0.8	24	12	27 M	0458	0.9	27	9	12 W	0430	1.3	40	3	27 Th	0449	1.7	52	0	12 Sa	0501	1.7	52	3	27 Su	0633	1.6	49	12
	2009	0.4	12			1611	0.3	9			1547	0.1	3			1657	0.0	0			1650	0.1	3			1826	0.4	12	
13 M	0605	0.9	27	9	28 Tu	0503	1.2	37	0	13 Th	0506	1.4	43	0	28 F	0551	1.7	52	0	13 Su	0605	1.7	52	3	28 M	0738	1.5	46	15
	1717	0.3	9			1631	0.0	0			1632	0.0	0			1803	0.0	0			1749	0.1	3			1905	0.5	15	
14 Tu	0559	1.1	34	3	29 W	0536	1.4	43	-3	14 F	0550	1.5	46	-3	29 Sa	0654	1.7	52	0	14 M	0708	1.7	52	3	29 Tu	0838	1.4	43	21
	1657	0.1	3			1717	-0.1	-3			1724	-0.1	-3			1907	0.0	0			1845	0.1	3			1912	0.7	21	
15 W	0614	1.3	40	0	30 Th	0619	1.6	49	-6	15 Sa	0639	1.6	49	-3	30 Su	0753	1.7	52	3	15 Tu	0809	1.7	52	6	30 W	0938	1.2	37	24
	1718	0.0	0			1811	-0.2	-6			1822	-0.1	-3			2005	0.1	3			1937	0.2	6			1807	0.8	24	27
					31 F	0708	1.7	52	-6					31 M	0847	1.6	49	6											
						1911	-0.2	-6							2054	0.2	6												

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Dauphin Island, Alabama, 2020

Times and Heights of High and Low Waters

October				November				December																					
Time		Height		Time		Height		Time		Height		Time		Height															
h	m	ft	cm	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm														
1	Th	0316	0.8	24	16	F	0504	0.7	21	1	Su	0817	0.2	6	16	M	0911	-0.3	-9	1	Tu	0902	-0.3	-9	16	W	1035	-0.6	-18
		1052	1.0	30			2124	1.3	40			2203	1.6	49			2220	1.8	55			2208	1.5	46			2302	1.5	46
		1624	0.9	27																									
		2204	1.1	34																									
2	F	0558	0.7	21	17	Sa	0711	0.4	12	2	M	0902	0.1	3	17	Tu	1020	-0.3	-9	2	W	0953	-0.4	-12	17	Th	1132	-0.6	-18
		2223	1.2	37			2155	1.5	46			2231	1.6	49			2309	1.8	55			2245	1.5	46			2348	1.4	43
3	Sa	0747	0.6	18	18	Su	0845	0.2	6	3	Tu	0950	0.1	3	18	W	1128	-0.3	-9	3	Th	1046	-0.4	-12	18	F	1219	-0.5	-15
		2248	1.4	43			2237	1.7	52			2304	1.7	52			2359	1.7	52			2325	1.5	46					
4	Su	0904	0.5	15	19	M	1007	0.1	3	4	W	1044	0.0	0	19	Th	1233	-0.3	-9	4	F	1137	-0.4	-12	19	Sa	0031	1.2	37
		2314	1.5	46			2326	1.9	58			2343	1.7	52															
5	M	1005	0.4	12	20	Tu	1125	0.0	0	5	Th	1143	0.0	0	20	F	0052	1.6	49	5	Sa	0007	1.5	46	20	Su	0105	1.0	30
		2345	1.6	49													1327	-0.2	-6			1221	-0.4	-12			1259	-0.2	-6
6	Tu	1101	0.3	9	21	W	0019	1.9	58	6	F	0027	1.7	52	21	Sa	0143	1.4	43	6	Su	0048	1.3	40	21	M	0122	0.8	24
							1240	0.0	0			1242	-0.1	-3			1407	0.0	0			1257	-0.3	-9			1234	0.0	0
7	W	0021	1.6	49	22	Th	0117	1.8	55	7	Sa	0117	1.6	49	22	Su	0232	1.2	37	7	M	0126	1.2	37	22	Tu	0009	0.5	15
		1201	0.3	9			1350	0.0	0			1335	-0.1	-3			1426	0.1	3			1320	-0.1	-3			1124	0.1	3
8	Th	0106	1.7	52	23	F	0220	1.7	52	8	Su	0212	1.6	49	23	M	0312	1.0	30	8	Tu	0149	0.9	27	23	W	0914	0.1	3
		1304	0.2	6			1453	0.1	3			1421	0.0	0			1412	0.3	9			1318	0.1	3			1907	0.7	21
9	F	0159	1.7	52	24	Sa	0327	1.6	49	9	M	0310	1.4	43	24	Tu	0310	0.8	24	9	W	1223	0.3	9	24	Th	0607	0.0	0
		1407	0.2	6			1544	0.2	6			1456	0.1	3			1314	0.4	12			2030	0.7	21			1902	0.9	27
10	Sa	0301	1.7	52	25	Su	0436	1.4	43	10	Tu	0414	1.2	37	25	W	1118	0.5	15	10	Th	0709	0.3	9	25	F	0556	-0.2	-6
		1507	0.1	3			1619	0.4	12			1514	0.3	9			2011	0.9	27			1938	0.9	27			1916	1.0	30
11	Su	0409	1.7	52	26	M	0547	1.3	40	11	W	0542	1.0	30	26	Th	0611	0.3	9	11	F	0601	0.0	0	26	Sa	0618	-0.3	-9
		1602	0.2	6			1626	0.5	15			1451	0.5	15			2007	1.1	34			1941	1.2	37			1940	1.1	34
12	M	0521	1.6	49	27	Tu	0702	1.1	34	12	Th	0421	0.6	18	27	F	0632	0.1	3	12	Sa	0639	-0.3	-9	27	Su	0651	-0.5	-15
		1650	0.2	6			1547	0.7	21			0904	0.7	21			2020	1.3	40			2007	1.4	43			2009	1.2	37
13	Tu	0636	1.5	46	28	W	0233	0.7	21	13	F	0555	0.4	12	28	Sa	0702	0.0	0	13	Su	0730	-0.5	-15	28	M	0731	-0.5	-15
		1729	0.4	12			0837	0.9	27			2034	1.3	40			2040	1.4	43			2044	1.5	46			2042	1.3	40
14	W	0758	1.3	40	29	Th	0516	0.6	18	14	Sa	0702	0.1	3	29	Su	0737	-0.2	-6	14	M	0828	-0.6	-18	29	Tu	0818	-0.6	-18
		1744	0.6	18			2103	1.2	37			2059	1.6	49			2105	1.5	46			2127	1.6	49			2119	1.3	40
15	Th	0945	1.1	34	30	F	0637	0.5	15	15	Su	0806	-0.1	-3	30	M	0816	-0.2	-6	15	Tu	0931	-0.6	-18	30	W	0908	-0.6	-18
		1645	0.9	27			2118	1.4	43			2137	1.7	52			2135	1.5	46			2214	1.6	49			2157	1.3	40
		2132	1.0	30																									
					31	Sa	0731	0.3	9																31	Th	0958	-0.7	-21
							2138	1.5	46																				

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Mobile, Alabama, 2020

Times and Heights of High and Low Waters

January				February				March																					
Time	Height			Time	Height			Time	Height			Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm										
1 W	0227	0.8	24		16 Th	0257	0.6	18		1 Sa	0752	0.1	3		16 Su	0543	-0.3	-9		1 Su	0309	0.1	3		16 M	0457	-0.1	-3	
	1214	-0.2	-6			1143	0.0	0			1752	1.0	30			1740	1.4	43			1639	1.3	40			1657	1.7	52	
	2252	0.6	18			1932	0.5	15																					
2 Th	1145	0.0	0		17 F	1013	0.1	3		2 Su	0619	-0.1	-3		17 M	0639	-0.4	-12		2 M	0440	0.0	0		17 Tu	0604	-0.2	-6	
	2040	0.6	18			1846	0.8	24			1814	1.1	34			1825	1.5	46			1716	1.4	43			1749	1.6	49	
3 F	1034	0.0	0		18 Sa	0651	-0.1	-3		3 M	0637	-0.3	-9		18 Tu	0727	-0.5	-15		3 Tu	0547	-0.2	-6		18 W	0657	-0.2	-6	
	1938	0.8	24			1842	1.0	30			1849	1.3	40			1920	1.5	46			1801	1.5	46			1847	1.6	49	
4 Sa	0824	0.0	0		19 Su	0710	-0.4	-12		4 Tu	0713	-0.5	-15		19 W	0809	-0.6	-18		4 W	0640	-0.4	-12		19 Th	0737	-0.2	-6	
	1932	0.9	27			1910	1.2	37			1936	1.4	43			2024	1.5	46			1858	1.6	49			1956	1.5	46	
5 Su	0728	-0.2	-6		20 M	0745	-0.6	-18		5 W	0752	-0.7	-21		20 Th	0845	-0.6	-18		5 Th	0726	-0.5	-15		20 F	0807	-0.1	-3	
	1950	1.1	34			1953	1.4	43			2033	1.5	46			2131	1.4	43			2008	1.6	49			2114	1.4	43	
6 M	0738	-0.4	-12		21 Tu	0824	-0.7	-21		6 Th	0833	-0.8	-24		21 F	0916	-0.5	-15		6 F	0808	-0.6	-18		21 Sa	0826	0.0	0	
	2021	1.2	37			2044	1.4	43			2136	1.5	46			2230	1.4	43			2126	1.6	49			2228	1.3	40	
7 Tu	0807	-0.6	-18		22 W	0903	-0.8	-24		7 F	0914	-0.9	-27		22 Sa	0937	-0.4	-12		7 Sa	0846	-0.5	-15		22 Su	0830	0.2	6	
	2102	1.4	43			2139	1.4	43			2236	1.6	49			2320	1.3	40			2240	1.6	49			2330	1.1	34	
8 W	0844	-0.8	-24		23 Th	0941	-0.8	-24		8 Sa	0954	-0.9	-27		23 Su	0947	-0.3	-9		8 Su	0920	-0.4	-12		23 M	0819	0.3	9	
	2149	1.5	46			2232	1.4	43			2332	1.5	46								2350	1.5	46			1546	0.8	24	
9 Th	0927	-0.9	-27		24 F	1015	-0.8	-24		9 Su	1031	-0.8	-24		24 M	0005	1.1	34		9 M	0945	-0.1	-3		24 Tu	0034	1.0	30	
	2238	1.5	46			2320	1.4	43							0943	-0.1	-3												
10 F	1011	-1.0	-30		25 Sa	1042	-0.7	-21		10 M	0027	1.4	43		25 Tu	0050	1.0	30		10 Tu	0108	1.2	37		25 W	0203	0.9	27	
	2328	1.6	49								1100	-0.6	-18			0933	0.1	3			0946	0.2	6			0749	0.6	18	
																1733	0.6	18			1634	0.6	18			1359	1.0	30	
																2021	0.5	15			1933	0.5	15			2107	0.5	15	
11 Sa	1056	-1.0	-30		26 Su	0004	1.3	40		11 Tu	0122	1.2	37		26 W	0139	0.8	24		11 W	0257	1.0	30		26 Th	0413	0.8	24	
						1059	-0.6	-18			1110	-0.3	-9			0920	0.2	6			0917	0.5	15			0728	0.7	21	
																1637	0.7	21			1536	0.8	24			1351	1.2	37	
																2133	0.5	15			2106	0.4	12			2153	0.4	12	
12 Su	0017	1.5	46		27 M	0044	1.1	34		12 W	0226	0.9	27		27 Th	0244	0.6	18		12 Th	0503	0.8	24		27 F	1406	1.4	43	
	1137	-0.9	-27			1103	-0.4	-12			1046	0.0	0			0904	0.3	9			0839	0.7	21			2244	0.3	9	
											1801	0.5	15			1559	0.8	24			1445	1.0	30						
											2130	0.4	12			2246	0.4	12			2235	0.2	6						
13 M	0105	1.4	43		28 Tu	0121	1.0	30		13 Th	0355	0.6	18		28 F	0424	0.5	15		13 F	1452	1.3	40		28 Sa	1432	1.5	46	
	1211	-0.8	-24			1056	-0.3	-9			1009	0.2	6			0831	0.4	12											
											1712	0.7	21			1556	1.0	30											
14 Tu	0151	1.2	37		29 W	0155	0.8	24		14 F	1649	1.0	30		29 Sa	0039	0.2	6		14 Sa	0128	0.1	3		29 Su	0005	0.2	6	
	1229	-0.5	-15			1043	-0.1	-3								1612	1.2	37			1526	1.5	46			1506	1.6	49	
						1911	0.5	15																					
						2208	0.4	12																					
15 W	0233	0.9	27		30 Th	0219	0.6	18		15 Sa	0432	0.0	0												30 M	0214	0.1	3	
	1218	-0.2	-6			1021	0.0	0			1705	1.2	37																
						1807	0.6	18																					
					31 F	0939	0.1	3																	31 Tu	0345	0.0	0	
						1745	0.8	24																					

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Mobile, Alabama, 2020

Times and Heights of High and Low Waters

July				August				September																							
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																		
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm																	
1 W	0801	1.7	52	3	16 Th	0747	1.8	55	6	1 Sa	0928	2.0	61	0	16 Su	0922	2.0	61	3	1 Tu	1141	1.8	55	16 W	1201	1.8	55				
	2015	0.1	-3			2006	0.2	-6			2134	0.0	0			2059	0.1	3			2143	0.6	18		2120	0.6	18				
2 Th	0847	1.9	58		17 F	0841	1.9	58	2 Su	1035	2.0	61	0	17 M	1035	2.1	64	0	2 W	1238	1.7	52	17 Th	1336	1.7	52		2125	0.9	27	
	2056	-0.1	-3			2042	0.1	-3			2212	0.0	0			2137	0.0	0			2135	0.7	21		2125	0.9	27				
3 F	0941	2.0	61		18 Sa	0941	2.0	61	0	3 M	1133	2.0	61	3	18 Tu	1139	2.1	64	3	3 Th	0446	1.1	34	18 F	0306	1.1	34		2057	1.2	37
	2141	-0.1	-3			2121	0.0	0			2243	0.1	3			2212	0.1	3			0717	1.0	30		0735	0.9	27				
4 Sa	1037	2.1	64		19 Su	1040	2.0	61	-3	4 Tu	1225	1.9	58	9	19 W	1241	2.0	61	9	4 F	0357	1.2	37	19 Sa	0147	1.3	40		2015	1.3	40
	2227	-0.2	-6			2201	-0.1	-3			2303	0.3	9			2241	0.3	9			0826	1.0	30		0849	0.7	21				
5 Su	1131	2.1	64		20 M	1135	2.1	64	-3	5 W	1313	1.8	55	12	20 Th	1351	1.8	55	18	5 Sa	0249	1.3	40	20 Su	0117	1.6	49		0959	0.5	15
	2311	-0.1	-3			2242	-0.1	-3			2305	0.4	12			2255	0.6	18			0921	0.9	27		0959	0.5	15				
6 M	1222	2.0	61		21 Tu	1228	2.1	64	-3	6 Th	1402	1.6	49	18	21 F	1515	1.6	49	24	6 Su	0233	1.5	46	21 M	0145	1.9	58		1124	0.4	12
	2350	-0.1	-3			2320	-0.1	-3			2253	0.6	18			2236	0.8	24			1012	0.8	24		1124	0.4	12				
7 Tu	1311	2.0	61		22 W	1320	2.1	64	0	7 F	1452	1.5	46	24	22 Sa	0449	1.1	34	27	7 M	0247	1.7	52	22 Tu	0228	2.0	61		1348	0.4	12
						2352	0.0	0			2236	0.8	24			0908	0.9	27			1107	0.7	21		1348	0.4	12				
8 W	0019	0.1	3	55	23 Th	1414	1.9	58		8 Sa	0534	1.1	34	30	23 Su	0353	1.3	40	24	8 Tu	0313	1.8	55	23 W	0318	2.1	64		1542	0.3	9
	1357	1.8	55								0944	1.0	30			1036	0.8	24			1228	0.7	21		1542	0.3	9				
9 Th	0032	0.2	6	52	24 F	0013	0.2	6	52	9 Su	0445	1.3	40	27	24 M	0341	1.6	49	21	9 W	0347	1.9	58	24 Th	0412	2.1	64		1710	0.3	9
	1439	1.7	52			1508	1.7	52			1110	0.9	27			1239	0.7	21			1447	0.6	18		1710	0.3	9				
10 F	0028	0.4	12	46	25 Sa	0007	0.5	15	43	10 M	0439	1.5	46	24	25 Tu	0409	1.9	58	15	10 Th	0428	1.9	58	25 F	0508	2.0	61		1817	0.3	9
	1516	1.5	46			1604	1.4	43	24		1315	0.8	24			1612	0.5	15			1645	0.5	15		1817	0.3	9				
11 Sa	0011	0.6	18	37	26 Su	0622	1.1	34	27	11 Tu	0456	1.6	49	21	26 W	0451	2.0	61	12	11 F	0517	2.0	61	26 Sa	0609	1.9	58		1908	0.4	12
	1546	1.2	37			1125	0.9	27			1623	0.7	21			1752	0.4	12			1802	0.4	12		1908	0.4	12				
12 Su	0705	1.1	34	24	27 M	0541	1.4	43	21	12 W	0525	1.8	55	15	27 Th	0541	2.1	64	9	12 Sa	0615	2.0	61	27 Su	0720	1.8	55		1944	0.5	15
	2220	0.8	24			1745	0.7	21			1804	0.5	15			1858	0.3	9			1856	0.3	9		1944	0.5	15				
13 M	0628	1.3	40	21	28 Tu	0548	1.6	49	12	13 Th	0604	1.8	55	12	28 F	0640	2.0	61	6	13 Su	0729	2.0	61	28 M	0858	1.6	49		2006	0.6	18
	2011	0.7	21			1835	0.4	12			1856	0.4	12			1949	0.2	6			1940	0.2	6		2006	0.6	18				
14 Tu	0637	1.5	46	15	29 W	0622	1.8	55	6	14 F	0656	1.9	58	6	29 Sa	0753	2.0	61	6	14 M	0903	2.0	61	29 Tu	1047	1.5	46		2005	0.8	24
	1922	0.5	15			1923	0.2	6			1939	0.2	6			2031	0.2	6			2019	0.3	9		2005	0.8	24				
15 W	0705	1.6	49	9	30 Th	0712	2.0	61	3	15 Sa	0804	2.0	61	3	30 Su	0919	1.9	58	9	15 Tu	1036	1.9	58	30 W	0241	1.2	37		1943	0.9	27
	1935	0.3	9			2009	0.1	3			2020	0.1	3			2106	0.3	9			2054	0.4	12		1943	0.9	27				
					31 F	0816	2.0	61	0					31 M	1038	1.9	58	12													
						2053	0.0	0							2132	0.4	12														

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Mobile, Alabama, 2020

Times and Heights of High and Low Waters

October				November				December															
Time		Height		Time		Height		Time		Height		Time		Height									
h	m	ft	cm	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm				
1	0156	1.2	37	16	0027	1.2	37	1	0916	0.1	3	16	1024	-0.4	-12	1	1020	-0.5	-15	16	1145	-0.8	-24
Th	0719	0.9	27	F	0726	0.6	18	Su	2347	1.8	55	M	2354	1.9	58	Tu	2354	1.7	52	W			
○	1406	1.3	40	●	1607	1.3	40																
	1921	1.1	34		1826	1.2	37																
					2337	1.5	46																
2	0050	1.3	40	17	0832	0.3	9	2	0953	0.0	0	17	1136	-0.5	-15	2	1108	-0.5	-15	17	0033	1.6	49
F	0814	0.8	24	Sa	2345	1.7	52	M				Tu				W				Th	1231	-0.7	-21
	1622	1.2	37																				
	1856	1.1	34																				
3	0031	1.5	46	18	0934	0.2	6	3	0018	1.8	55	18	0041	1.9	58	3	0035	1.7	52	18	0120	1.5	46
Sa	0858	0.6	18	Su				Tu	1038	0.0	0	W	1246	-0.4	-12	Th	1158	-0.5	-15	F	1305	-0.6	-18
4	0042	1.7	52	19	0018	1.9	58	4	0054	1.8	55	19	0131	1.9	58	4	0118	1.6	49	19	0205	1.3	40
Su	0937	0.5	15	M	1047	0.1	3	W	1139	0.0	0	Th	1343	-0.4	-12	F	1245	-0.5	-15	Sa	1322	-0.4	-12
5	0105	1.8	55	20	0101	2.1	64	5	0135	1.9	58	20	0223	1.7	52	5	0202	1.6	49	20	0244	1.1	34
M	1017	0.4	12	Tu	1227	0.0	0	Th	1254	-0.1	-3	F	1428	-0.3	-9	Sa	1323	-0.5	-15	Su	1318	-0.2	-6
6	0135	1.9	58	21	0151	2.1	64	6	0221	1.8	55	21	0313	1.5	46	6	0246	1.4	43	21	0307	0.8	24
Tu	1107	0.4	12	W	1359	0.0	0	F	1359	-0.1	-3	Sa	1458	-0.1	-3	Su	1353	-0.4	-12	M	1259	-0.1	-3
												○				○				○			
7	0211	1.9	58	22	0245	2.0	61	7	0311	1.8	55	22	0356	1.3	40	7	0327	1.2	37	22	1222	0.1	3
W	1231	0.4	12	Th	1512	0.1	3	Sa	1452	-0.1	-3	Su	1506	0.1	3	M	1411	-0.2	-6	Tu	2121	0.7	21
																○							
8	0254	2.0	61	23	0341	1.9	58	8	0401	1.7	52	23	0425	1.0	30	8	0356	0.9	27	23	0930	0.1	3
Th	1421	0.3	9	F	1614	0.1	3	Su	1536	0.0	0	M	1451	0.3	9	Tu	1412	0.0	0	W	2015	0.8	24
				○				○					2345	0.9	27		2250	0.7	21				
9	0344	2.0	61	24	0436	1.8	55	9	0452	1.5	46	24	1423	0.4	12	9	1352	0.3	9	24	0802	-0.1	-3
F	1544	0.3	9	Sa	1705	0.3	9	M	1611	0.1	3	Tu	2303	0.9	27	W	2154	0.8	24	Th	2007	1.0	30
○																							
10	0437	1.9	58	25	0528	1.6	49	10	0545	1.2	37	25	0916	0.4	12	10	0738	0.2	6	25	0749	-0.3	-9
Sa	1653	0.2	6	Su	1739	0.4	12	Tu	1629	0.3	9	W	2210	1.0	30	Th	2110	1.0	30	F	2026	1.2	37
11	0536	1.9	58	26	0620	1.3	40	11	0028	1.0	30	26	0800	0.2	6	11	0743	-0.2	-6	26	0807	-0.5	-15
Su	1749	0.2	6	M	1742	0.6	18	W	0402	0.8	24	Th	2141	1.2	37	F	2105	1.3	40	Sa	2058	1.3	40
									0846	0.9	27												
12	0645	1.8	55	27	0111	1.1	34	12	1621	0.6	18	27	0806	0.0	0	12	0819	-0.5	-15	27	0836	-0.6	-18
M	1835	0.3	9	Tu	0410	1.0	30	Th	2335	1.0	30	F	2150	1.4	43	Sa	2132	1.5	46	Su	2136	1.4	43
					0738	1.1	34		0632	0.6	18												
					1710	0.7	21		1325	0.8	24												
									1530	0.7	21												
									2245	1.2	37												
13	0838	1.6	49	28	0033	1.1	34	13	0734	0.2	6	28	0831	-0.2	-6	13	0904	-0.7	-21	28	0911	-0.7	-21
Tu	1911	0.5	15	W	0625	0.8	24	F	2220	1.4	43	Sa	2212	1.5	46	Su	2211	1.7	52	M	2218	1.5	46
					1220	0.9	27																
					1630	0.8	24																
					2345	1.2	37																
14	1109	1.4	43	29	0726	0.6	18	14	0826	-0.1	-3	29	0902	-0.3	-9	14	0956	-0.8	-24	29	0949	-0.7	-21
W	1930	0.7	21	Th	2306	1.4	43	Sa	2237	1.7	52	Su	2242	1.6	49	M	2257	1.7	52	Tu	2301	1.5	46
								○								○				○			
15	0128	1.1	34	30	0807	0.4	12	15	0921	-0.3	-9	30	0938	-0.4	-12	15	1051	-0.8	-24	30	1029	-0.8	-24
Th	0600	0.9	27	F	2305	1.5	46	Su	2311	1.9	58	M	2316	1.6	49	Tu	2344	1.7	52	W	2345	1.5	46
	1323	1.3	40																				
	1915	1.0	30																				
				31	0842	0.2	6													31	1107	-0.8	-24
				Sa	2322	1.7	52													Th			
				○																			

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

South Pass, Louisiana, 2020

Times and Heights of High and Low Waters

July				August				September																							
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																		
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm																	
1 W	0511	1.3	40	-9	16 Th	0457	1.3	40	-6	1 Sa	0615	1.7	52	-12	16 Su	0556	1.7	52	-6	1 Tu	0755	1.5	46	16 W	0757	1.7	52				
	1604	-0.3	-9			1606	-0.2	-6			1728	-0.4	-12			1654	-0.2	-6			1804	0.4	12		1739	0.5	15				
2 Th	0543	1.5	46	-15	17 F	0534	1.4	43	-9	2 Su	0705	1.6	49	-9	17 M	0650	1.7	52	-6	2 W	0839	1.4	43	17 Th	0913	1.5	46		1804	0.8	24
	1649	-0.5	-15			1641	-0.3	-9			1810	-0.3	-9			1737	-0.2	-6			1818	0.5	15		2315	0.9	27				
3 F	0623	1.6	49	-18	18 Sa	0615	1.5	46	-12	3 M	0751	1.6	49	-6	18 Tu	0744	1.7	52	-3	3 Th	0921	1.3	40	18 F	0221	0.8	24		1048	1.3	40
	1736	-0.6	-18			1719	-0.4	-12			1847	-0.2	-6			1819	-0.1	-3			1813	0.7	21		1744	1.0	30				
4 Sa	0707	1.7	52	-18	19 Su	0658	1.6	49	-12	4 Tu	0832	1.5	46	0	19 W	0838	1.6	49	3	4 F	1006	1.1	34	19 Sa	0508	0.7	21		2144	1.1	34
	1822	-0.6	-18			1759	-0.4	-12			1918	0.0	0			1858	0.1	3			1740	0.8	24		2140	1.4	43				
5 Su	0751	1.7	52	-15	20 M	0743	1.6	49	-12	5 W	0909	1.3	40	3	20 Th	0934	1.5	46	9	5 Sa	0436	0.8	24	20 Su	0720	0.6	18		2214	1.6	49
	1907	-0.5	-15			1841	-0.4	-12			1940	0.1	3			1930	0.3	9			1104	1.0	30		2214	1.6	49				
6 M	0833	1.6	49	-12	21 Tu	0828	1.6	49	-12	6 Th	0941	1.2	37	9	21 F	1036	1.2	37	18	6 Su	0659	0.8	24	21 M	0917	0.4	12		2301	1.8	55
	1948	-0.4	-12			1923	-0.4	-12			1949	0.3	9			1936	0.6	18			2307	1.2	37		2301	1.8	55				
7 Tu	0912	1.5	46	-9	22 W	0912	1.5	46	-9	7 F	1008	1.0	30	12	22 Sa	1202	1.0	30	24	7 M	0930	0.7	21	22 Tu	1053	0.3	9		2356	1.9	58
	2025	-0.3	-9			2002	-0.3	-9			1935	0.4	12			1826	0.8	24			2334	1.4	43		2356	1.9	58				
8 W	0946	1.3	40	-3	23 Th	0957	1.4	43	-3	8 Sa	1022	0.9	27	15	23 Su	0015	0.9	27	18	8 Tu	1113	0.5	15	23 W	1210	0.2	6				
	2053	-0.1	-3			2036	-0.1	-3			1843	0.5	15			0846	0.6	18				0.5	15								
9 Th	1013	1.2	37	3	24 F	1039	1.2	37	6	9 Su	0237	0.8	24	18	24 M	0020	1.2	37	12	9 W	0014	1.5	46	24 Th	0058	1.9	58		1316	0.2	6
	2109	0.1	3			2053	0.2	6			1653	0.6	18			1130	0.4	12			1216	0.4	12		1316	0.2	6				
10 F	1026	1.0	30	6	25 Sa	1111	0.9	27	12	10 M	0150	0.9	27	15	25 Tu	0059	1.4	43	3	10 Th	0104	1.6	49	25 F	0208	1.9	58		1413	0.2	6
	2104	0.2	6			2027	0.4	12			1412	0.5	15			1249	0.1	3			1309	0.3	9		1413	0.2	6				
11 Sa	0953	0.8	24	9	26 Su	0435	0.7	21	15	11 Tu	0200	1.1	34	9	26 W	0153	1.6	49	0	11 F	0205	1.7	52	26 Sa	0327	1.8	55		1502	0.3	9
	2021	0.3	9			1716	0.5	15			1352	0.3	9			1351	0.0	0			1358	0.2	6		1502	0.3	9				
12 Su	0616	0.7	21	12	27 M	0310	0.9	27	6	12 W	0232	1.2	37	6	27 Th	0255	1.7	52	-3	12 Sa	0314	1.7	52	27 Su	0448	1.7	52		1543	0.4	12
	1825	0.4	12			1349	0.2	6			1416	0.2	6			1446	-0.1	-3			1445	0.2	6		1543	0.4	12				
13 M	0434	0.8	24	9	28 Tu	0313	1.2	37	0	13 Th	0316	1.4	43	0	28 F	0401	1.7	52	-3	13 Su	0426	1.8	55	28 M	0604	1.6	49		1613	0.6	18
	1549	0.3	9			1425	0.0	0			1451	0.0	0			1537	-0.1	-3			1532	0.2	6		1613	0.6	18				
14 Tu	0416	1.0	30	3	29 W	0346	1.4	43	-6	14 F	0407	1.5	46	-3	29 Sa	0508	1.7	52	0	14 M	0538	1.8	55	29 Tu	0711	1.5	46		1630	0.8	24
	1523	0.1	3			1509	-0.2	-6			1530	-0.1	-3			1623	0.0	0			1617	0.2	6		1630	0.8	24				
15 W	0429	1.1	34	-3	30 Th	0432	1.5	46	-12	15 Sa	0501	1.6	49	-3	30 Su	0610	1.7	52	3	15 Tu	0647	1.8	55	30 W	0815	1.4	43		1626	0.9	27
	1538	-0.1	-3			1556	-0.4	-12			1611	-0.1	-3			1704	0.1	3			1700	0.3	9		1626	0.9	27				
					31 F	0523	1.6	49	-12					31 M	0706	1.6	49	6					30 W	2219	1.0	30					
						1643	-0.4	-12							1739	0.2	6														

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Grand Isle (East Point), Louisiana, 2020

Times and Heights of High and Low Waters

April				May				June																		
Time	Height			Time	Height			Time	Height			Time	Height													
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm							
1 W	0145	-0.1	-3	34	16 Th	0314	0.0	0	0	1 F	0156	1.1	34	16 Sa	0208	0.3	9	1 M	0019	0.5	15	16 Tu	0651	0.9	27	3
2 Th	0248	-0.2	-6	34	17 F	0358	0.2	6	27	2 Sa	0244	0.1	3	17 Su	0148	0.5	15	2 Tu	0719	1.0	30	17 W	0655	1.1	34	4
3 F	0345	-0.1	-3	34	18 Sa	0429	0.3	9	24	3 Su	0322	0.3	9	18 M	0827	0.8	24	3 W	0721	1.2	37	18 Th	0714	1.2	37	5
4 Sa	0438	-0.1	-3	30	19 Su	0440	0.4	12	18	4 M	0336	0.5	15	19 Tu	0756	0.9	27	4 Th	0748	1.3	40	19 F	0744	1.3	40	6
5 Su	0527	0.1	3	27	20 M	0415	0.5	15	18	5 Tu	0826	0.8	24	20 W	0756	1.0	30	5 F	0826	1.4	43	20 Sa	0820	1.3	40	7
6 M	0608	0.3	9	24	21 Tu	0905	0.8	24	9	6 W	0815	1.1	34	21 Th	0811	1.2	37	6 Sa	0910	1.5	46	21 Su	0900	1.4	43	8
7 Tu	0624	0.4	12	15	22 W	0857	0.9	27	6	7 Th	0839	1.2	37	22 F	0837	1.2	37	7 Su	0956	1.5	46	22 M	0942	1.4	43	9
8 W	0916	0.8	24	3	23 Th	0910	1.0	30	3	8 F	0918	1.4	43	23 Sa	0909	1.3	40	8 M	1041	1.4	43	23 Tu	1024	1.4	43	10
9 Th	0939	1.0	30	-3	24 F	0934	1.1	34	3	9 Sa	1003	1.5	46	24 Su	0946	1.4	43	9 Tu	1123	1.3	40	24 W	1106	1.3	40	11
10 F	1022	1.2	37	-6	25 Sa	1005	1.2	37	0	10 Su	1051	1.5	46	25 M	1027	1.4	43	10 W	1158	1.2	37	25 Th	1145	1.2	37	12
11 Sa	1111	1.3	40	-6	26 Su	1042	1.2	37	0	11 M	1139	1.4	43	26 Tu	1111	1.4	43	11 Th	1223	1.1	34	26 F	1217	1.0	30	13
12 Su	1204	1.3	40		27 M	1125	1.3	40	-3	12 Tu	1227	1.3	40	27 W	1155	1.3	40	12 F	0004	0.1	3	27 Sa	1202	0.8	24	14
13 M	0006	-0.2	-6	40	28 Tu	1214	1.3	40		13 W	0032	0.0	0	28 Th	1239	1.3	40	13 Sa	0003	0.3	9	28 Su	0805	0.7	21	15
14 Tu	0116	-0.1	-3	37	29 W	0001	-0.1	-3	40	14 Th	0119	0.1	3	29 F	0017	0.0	0	14 Su	0833	0.7	21	29 M	0628	0.8	24	16
15 W	0220	-0.1	-3	34	30 Th	0101	-0.1	-3	37	15 F	0153	0.2	6	30 Sa	0052	0.1	3	15 M	0717	0.8	24	30 Tu	0605	1.0	30	17
													31 Su	0107	0.3	9										

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Grand Isle (East Point), Louisiana, 2020

Times and Heights of High and Low Waters

July				August				September																					
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 W	0620	1.2	37	-6	16 Th	0606	1.2	37	-3	1 Sa	0733	1.5	46	-6	16 Su	0711	1.5	46	-3	1 Tu	0915	1.3	40	12	16 W	0916	1.4	43	15
	1724	-0.2	-6			1726	-0.1	-3			1857	-0.2	-6			1822	-0.1	-3			1949	0.4	12			1911	0.5	15	
2 Th	0653	1.3	40	-9	17 F	0643	1.3	40	-6	2 Su	0825	1.5	46	-3	17 M	0806	1.5	46	0	2 W	0959	1.2	37	15	17 Th	1042	1.3	40	21
	1811	-0.3	-9			1803	-0.2	-6			1943	-0.1	-3			1906	0.0	0			2006	0.5	15			1939	0.7	21	
3 F	0736	1.4	43	-12	18 Sa	0726	1.4	43	-6	3 M	0912	1.4	43	-3	18 Tu	0900	1.5	46	0	3 Th	1044	1.1	34	18	18 F	0042	0.8	24	24
	1859	-0.4	-12			1843	-0.2	-6			2023	-0.1	-3			1949	0.0	0			2003	0.6	18			0410	0.7	21	21
4 Sa	0823	1.5	46	-12	19 Su	0812	1.4	43	-9	4 Tu	0954	1.3	40	3	19 W	0956	1.4	43	6	4 F	1136	1.0	30	24	19 Sa	0410	0.7	21	24
	1948	-0.4	-12			1926	-0.3	-9			2056	0.1	3			2028	0.2	6			1923	0.8	24			1240	1.1	34	34
5 Su	0910	1.5	46	-9	20 M	0858	1.4	43	-9	5 W	1030	1.2	37	6	20 Th	1055	1.3	40	12	5 Sa	0058	0.9	27	24	20 Su	0900	0.5	15	15
	2036	-0.3	-9			2008	-0.3	-9			2119	0.2	6			2058	0.4	12			0624	0.8	24			2329	1.4	43	43
6 M	0954	1.4	43	-6	21 Tu	0944	1.4	43	-6	6 Th	1100	1.1	34	9	21 F	1204	1.1	34	18	6 Su	0020	1.0	30	21	21 M	1040	0.3	9	9
	2119	-0.2	-6			2050	-0.2	-6			2127	0.3	9			2103	0.6	18			0901	0.7	21			0901	0.7	21	21
7 Tu	1034	1.3	40	-3	22 W	1029	1.4	43	-3	7 F	1125	1.0	30	15	22 Sa	0330	0.7	21	18	7 M	0026	1.1	34	18	22 Tu	0019	1.5	46	6
	2157	-0.1	-3			2128	-0.1	-3			2111	0.5	15			0618	0.6	18			1059	0.6	18			1208	0.2	6	6
8 W	1108	1.2	37	0	23 Th	1114	1.2	37	3	8 Sa	1129	0.8	24	18	23 Su	0140	0.9	27	18	8 Tu	0053	1.2	37	15	23 W	0117	1.6	49	6
	2225	0.0	0			2158	0.1	3			2010	0.6	18			1041	0.6	18			1221	0.5	15			1325	0.2	6	6
9 Th	1133	1.1	34	3	24 F	1155	1.0	30	9	9 Su	0414	0.8	24	18	24 M	0141	1.1	34	12	9 W	0133	1.3	40	12	24 Th	0222	1.6	49	6
	2240	0.1	3			2211	0.3	9			1744	0.6	18			1244	0.4	12			1325	0.4	12			1435	0.2	6	6
10 F	1141	0.9	27	9	25 Sa	1219	0.8	24	15	10 M	0316	0.9	27	15	25 Tu	0219	1.3	40	6	10 Th	0224	1.4	43	9	25 F	0334	1.6	49	6
	2232	0.3	9			2135	0.5	15			1456	0.5	15			1402	0.2	6			1423	0.3	9			1538	0.2	6	6
11 Sa	1044	0.8	24	12	26 Su	0528	0.7	21	15	11 Tu	0319	1.0	30	9	26 W	0312	1.4	43	3	11 F	0324	1.5	46	9	26 Sa	0452	1.5	46	9
	2140	0.4	12			1551	0.5	15			1458	0.3	9			1507	0.1	3			1518	0.3	9			1633	0.3	9	9
12 Su	0719	0.7	21	12	27 M	0423	0.9	27	9	12 W	0347	1.1	34	6	27 Th	0414	1.5	46	0	12 Sa	0432	1.5	46	6	27 Su	0609	1.5	46	12
	1917	0.4	12			1458	0.3	9			1530	0.2	6			1607	0.0	0			1610	0.2	6			1719	0.4	12	12
13 M	0548	0.8	24	9	28 Tu	0427	1.1	34	0	13 Th	0429	1.2	37	3	28 F	0522	1.5	46	0	13 Su	0542	1.5	46	6	28 M	0721	1.4	43	15
	1652	0.3	9			1540	0.0	0			1609	0.1	3			1703	0.0	0			1659	0.2	6			1755	0.5	15	15
14 Tu	0527	0.9	27	6	29 W	0500	1.3	40	-3	14 F	0520	1.3	40	0	29 Sa	0629	1.5	46	3	14 M	0652	1.6	49	6	29 Tu	0829	1.3	40	18
	1636	0.2	6			1628	-0.1	-3			1652	0.0	0			1755	0.1	3			1746	0.2	6			1817	0.6	18	18
15 W	0538	1.1	34	0	30 Th	0546	1.4	43	-6	15 Sa	0615	1.4	43	0	30 Su	0731	1.5	46	6	15 Tu	0802	1.5	46	9	30 W	0938	1.2	37	24
	1655	0.0	0			1718	-0.2	-6			1737	0.0	0			1841	0.2	6			1831	0.3	9			1819	0.8	24	24
					31 F	0639	1.5	46	-6					31 M	0826	1.4	43	9											

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Grand Isle (East Point), Louisiana, 2020

Times and Heights of High and Low Waters

October				November				December						
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height	
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm
1 Th	0028	0.9	27		16 F	0511	0.6	18		1 Su	0734	0.3	9	
	0321	0.8	24			2106	1.2	37		16 M	2149	1.5	46	
	1101	1.0	30							1 Tu	0815	-0.2	-6	
	1739	0.9	27							16 W	0815	-0.2	-6	
	2238	1.0	30							17 Th	0917	-0.6	-18	
2 F	0539	0.8	24		17 Sa	0642	0.4	12		2 M	0816	0.2	6	
	2210	1.1	34			2124	1.4	43		17 Tu	2239	1.5	46	
										2 W	0858	-0.3	-9	
										17 Th	2321	1.1	34	
3 Sa	0701	0.7	21		18 Su	0801	0.3	9		3 Tu	0902	0.2	6	
	2215	1.2	37			2204	1.5	46		18 W	1022	-0.3	-9	
										3 Th	2300	1.2	37	
										18 F	0943	-0.3	-9	
										18 F	2359	0.9	27	
4 Su	0807	0.6	18		19 M	0916	0.1	3		4 W	0953	0.1	3	
	2236	1.3	40			2252	1.6	49		4 W	2313	1.4	43	
										19 Th	1124	-0.2	-6	
										4 F	1029	-0.3	-9	
5 M	0909	0.5	15		20 Tu	1031	0.1	3		5 Sa	1113	-0.3	-9	
	2306	1.4	43			2345	1.7	52		20 Su	0027	0.8	24	
										20 Su	1201	-0.2	-6	
										21 M	0028	0.6	18	
6 Tu	1012	0.5	15		21 W	1144	0.1	3		6 Su	0022	1.1	34	
	2344	1.5	46							6 Su	1154	-0.2	-6	
										21 M	1200	0.0	0	
										21 M	2250	0.4	12	
7 W	1117	0.4	12		22 Th	0042	1.6	49		7 Sa	0047	1.4	43	
						1254	0.1	3		7 Sa	1239	0.1	3	
										22 Su	0141	1.0	30	
										22 Su	1341	0.1	3	
8 Th	0031	1.5	46		23 F	0142	1.6	49		8 Su	0140	1.3	40	
	1224	0.3	9			1358	0.2	6		8 Su	1328	0.1	3	
										23 M	0150	0.9	27	
										23 M	1354	0.3	9	
										23 M	2351	0.7	21	
9 F	0125	1.5	46		24 Sa	0245	1.4	43		9 M	0238	1.2	37	
	1326	0.3	9			1452	0.3	9		9 M	1411	0.2	6	
										24 Tu	1325	0.4	12	
										24 Tu	2124	0.7	21	
10 Sa	0228	1.5	46		25 Su	0352	1.3	40		10 Tu	0357	1.0	30	
	1424	0.3	9			1534	0.4	12		10 Tu	1444	0.4	12	
										25 W	0603	0.5	15	
										25 W	2012	0.7	21	
11 Su	0338	1.5	46		26 M	0510	1.1	34		11 Th	0542	0.3	9	
	1517	0.3	9			1602	0.5	15		11 Th	1946	0.9	27	
										11 F	0454	-0.1	-3	
										11 F	1901	0.9	27	
12 M	0459	1.5	46		27 Tu	0700	1.0	30		12 Sa	0540	-0.3	-9	
	1605	0.4	12			1606	0.7	21		12 Sa	1929	1.1	34	
						2317	0.9	27		27 Su	0616	-0.4	-12	
										27 Su	1938	0.9	27	
13 Tu	0633	1.4	43		28 W	0404	0.8	24		13 Su	0631	-0.5	-15	
	1647	0.5	15			0935	0.9	27		13 Su	2010	1.2	37	
						1522	0.8	24		28 M	0651	-0.5	-15	
						2135	0.9	27		28 M	2015	0.9	27	
14 W	0823	1.2	37		29 Th	0524	0.7	21		14 M	0725	-0.6	-18	
	1720	0.7	21			2055	1.0	30		14 M	2057	-0.6	-18	
	2339	0.8	24							29 Tu	0730	-0.6	-18	
										29 Tu	2055	1.0	30	
15 Th	0248	0.7	21		30 F	0613	0.5	15		15 Tu	0821	-0.6	-18	
	1039	1.1	34			2050	1.1	34		15 Tu	2147	-0.6	-18	
	1722	0.9	27							30 W	0810	-0.6	-18	
	2139	1.0	30							30 W	2136	1.0	30	
										31 Th	0850	-0.6	-18	
										31 Th	2216	1.0	30	

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Galveston (Galveston Channel), Texas, 2020

Times and Heights of High and Low Waters

April				May				June						
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height	
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm
1 W	0317	0.0	0		16 Th	0541	0.2	6		1 F	0350	0.2	6	
	1259	1.5	46			1403	1.5	46			1244	1.5	46	
○						2035	1.1	34		16 Sa	0605	0.6	18	
2 Th	0429	0.0	0			2254	1.2	37			1303	1.3	40	
	1348	1.5	46		17 F	0650	0.3	9			1956	0.8	24	
3 F	0542	0.0	0			1427	1.4	43		17 Su	0053	1.1	34	
	1420	1.4	43			2036	1.0	30			0708	0.7	21	
	1952	1.2	37		18 Sa	0027	1.2	37			1314	1.3	40	
	2226	1.3	40			0746	0.4	12			2005	0.6	18	
4 Sa	0649	0.0	0			1440	1.3	40		18 M	0208	1.2	37	
	1444	1.4	43			2043	0.9	27			0801	0.8	24	
	1937	1.1	34		19 Su	0138	1.3	40			1322	1.2	37	
5 Su	0029	1.4	43			0830	0.6	18			2017	0.4	12	
	0751	0.1	3			1448	1.3	40		19 Tu	0308	1.3	40	
	1505	1.3	40			2052	0.8	24			0848	1.0	30	
	2008	0.9	27		20 M	0239	1.3	40			1329	1.2	37	
6 M	0156	1.5	46			0906	0.7	21			2033	0.3	9	
	0849	0.2	6			1456	1.2	37		20 W	0358	1.4	43	
	1524	1.3	40		21 Tu	2106	0.6	18			0931	1.1	34	
	2048	0.6	18			0334	1.4	43			1335	1.2	37	
7 Tu	0314	1.6	49			0938	0.8	24			2053	0.1	3	
	0944	0.4	12			1504	1.2	37		21 Th	0442	1.5	46	
	1542	1.2	37		22 W	2125	0.5	15			1014	1.2	37	
	2132	0.3	9			0425	1.4	43			1336	1.3	40	
8 W	0428	1.6	49			1009	0.9	27			2118	0.0	0	
	1041	0.7	21			1512	1.3	40		22 F	0525	1.6	49	
	1600	1.2	37		23 Th	2148	0.3	9			1058	1.2	37	
	2219	0.1	3			0514	1.5	46			1326	1.3	40	
9 Th	0542	1.7	52			1042	1.1	34			●	2146	-0.2	-6
	1140	0.9	27			1517	1.3	40		23 Sa	0607	1.6	49	
	1616	1.3	40		24 F	2215	0.2	6			2218	-0.2	-6	
	2307	-0.1	-3			0604	1.6	49			0757	1.7	52	
10 F	0655	1.7	52			1120	1.2	37			2359	-0.4	-12	
	1248	1.1	34			1513	1.3	40		8 M	0853	1.5	46	
	1629	1.3	40		25 Sa	2245	0.1	3			0946	1.4	43	
	2358	-0.2	-6			0654	1.6	49		9 Tu	0048	-0.2	-6	
11 Sa	0812	1.7	52			1450	1.3	40			0946	1.4	43	
					26 Su	2318	0.0	0			0138	0.0	0	
						0749	1.6	49			1030	1.3	40	
						2356	0.0	0		11 Th	0138	0.0	0	
12 Su	0053	-0.2	-6			0809	1.9	58			1030	1.3	40	
	0932	1.7	52		10 Su	0023	-0.3	-9			0138	0.0	0	
						0917	1.8	55			1030	1.3	40	
					11 M	00917	1.8	55			0138	0.0	0	
13 M	0153	-0.1	-3			0118	-0.1	-3			1030	1.3	40	
	1057	1.7	52			1027	1.7	52			0138	0.0	0	
					12 Tu	0118	-0.1	-3			1030	1.3	40	
14 Tu	0302	0.0	0			1027	1.7	52			0138	0.0	0	
	1219	1.6	49			0118	-0.1	-3			1030	1.3	40	
○					13 W	0118	-0.1	-3			0138	0.0	0	
15 W	0420	0.1	3			1027	1.7	52			0138	0.0	0	
	1322	1.6	49			0118	-0.1	-3			0138	0.0	0	
					14 Th	0118	-0.1	-3			0138	0.0	0	
						0118	-0.1	-3			0138	0.0	0	
					15 F	0118	-0.1	-3			0138	0.0	0	
						0118	-0.1	-3			0138	0.0	0	
					16 Sa	0118	-0.1	-3			0138	0.0	0	
						0118	-0.1	-3			0138	0.0	0	
					17 Su	0118	-0.1	-3			0138	0.0	0	
						0118	-0.1	-3			0138	0.0	0	
					18 M	0118	-0.1	-3			0138	0.0	0	
						0118	-0.1	-3			0138	0.0	0	
					19 Tu	0118	-0.1	-3			0138	0.0	0	
						0118	-0.1	-3			0138	0.0	0	
					20 W	0118	-0.1	-3			0138	0.0	0	
						0118	-0.1	-3			0138	0.0	0	
					21 Th	0118	-0.1	-3			0138	0.0	0	
						0118	-0.1	-3			0138	0.0	0	
					22 F	0118	-0.1	-3			0138	0.0	0	
						0118	-0.1	-3			0138	0.0	0	
					23 Sa	0118	-0.1	-3			0138	0.0	0	
						0118	-0.1	-3			0138	0.0	0	
					24 Su	0118	-0.1	-3			0138	0.0	0	
						0118	-0.1	-3			0138	0.0	0	
					25 M	0118	-0.1	-3			0138	0.0	0	
						0118	-0.1	-3			0138	0.0	0	
					26 Tu	0118	-0.1	-3			0138	0.0	0	
						0118	-0.1	-3			0138	0.0	0	
					27 W	0118	-0.1	-3			0138	0.0	0	
						0118	-0.1	-3			0138	0.0	0	
					28 Th	0118	-0.1	-3			0138	0.0	0	
						0118	-0.1	-3			0138	0.0	0	
					29 F	0118	-0.1	-3			0138	0.0	0	
						0118	-0.1	-3			0138	0.0	0	
					30 Sa	0118	-0.1	-3			0138	0.0	0	
						0118	-0.1	-3			0138	0.0	0	
					31 Su	0118	-0.1	-3			0138	0.0	0	
						0118	-0.1	-3			0138	0.0	0	

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings. On days when the tide is diurnal, high water has an approximate stand of about 7 hours. Predictions are for beginning of stand.

Galveston (Galveston Channel), Texas, 2020

Times and Heights of High and Low Waters

July				August				September															
Time		Height		Time		Height		Time		Height		Time		Height									
h	m	ft	cm	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm								
1 W	0240	1.3	40	16 Th	0326	1.3	40	1 Sa	0434	1.6	49	16 Su	0409	1.6	49	1 Tu	0502	1.5	46				
	0752	1.1	34		1915	-0.3	-9		2038	-0.5	-15		2003	-0.3	-9		1002	1.3	40				
	1109	1.2	37		1919	-0.5	-15		0513	1.5	46		0440	1.6	49		0518	1.5	46				
	1919	-0.5	-15		0513	1.5	46		0852	1.4	43		0852	1.4	43		1020	1.2	37				
2 Th	0340	1.5	46	17 F	0359	1.4	43	2 Su	2122	-0.5	-15	17 M	1158	1.5	46	2 W	1512	1.4	43	17 Th	0426	1.6	49
	0925	1.1	34		1948	-0.4	-12		1428	1.3	40		2047	-0.3	-9		1512	1.4	43		0928	1.1	34
	1125	1.2	37		2002	-0.7	-21		2239	-0.2	-6		2218	-0.1	-3		2220	0.4	12		1526	1.7	52
	2002	-0.7	-21		0548	1.5	46		0619	1.4	43		0509	1.5	46		0533	1.4	43		2208	0.5	15
3 F	0432	1.6	49	18 Sa	0433	1.4	43	3 M	1052	1.2	37	18 Tu	0910	1.4	43	3 Th	1047	1.1	34	18 F	0444	1.5	46
	2046	-0.7	-21		2024	-0.5	-15		1334	1.3	40		1318	1.5	46		1610	1.4	43		1015	0.8	24
	0520	1.6	49		2202	-0.3	-9		2314	0.0	0		2304	0.1	3		2248	0.5	15		1645	1.8	55
	2130	-0.7	-21		0548	1.5	46		0619	1.4	43		0534	1.5	46		0547	1.4	43		2258	0.8	24
4 Sa	0606	1.6	49	19 Su	0509	1.5	46	4 Tu	1107	1.2	37	19 W	0947	1.2	37	4 F	1120	0.9	27	19 Sa	0501	1.5	46
	2213	-0.6	-18		2103	-0.6	-18		1428	1.3	40		2218	-0.1	-3		1715	1.3	40		1105	0.6	18
	0650	1.5	46		2228	-0.5	-15		2345	0.2	6		2351	0.4	12		2315	0.7	21		1808	1.8	55
	2256	-0.5	-15		0546	1.5	46		0645	1.3	40		0558	1.4	43		0600	1.4	43		2352	1.1	34
5 Su	0606	1.6	49	20 M	1004	1.2	37	5 W	1136	1.1	34	20 Th	1036	1.1	34	5 Sa	1158	0.8	24	20 Su	0516	1.5	46
	2213	-0.6	-18		1222	1.3	40		1523	1.2	37		1553	1.4	43		1826	1.3	40		1159	0.3	9
	0650	1.5	46		2145	-0.6	-18		2314	0.0	0		2304	0.1	3		2344	0.9	27		1936	1.8	55
	2256	-0.5	-15		0622	1.4	43		0708	1.3	40		0619	1.4	43		0610	1.4	43		0528	1.6	49
6 M	0650	1.5	46	21 Tu	1024	1.2	37	6 Th	1219	1.0	30	21 F	1131	0.8	24	6 Su	1238	0.7	21	21 M	0053	1.3	40
	2256	-0.5	-15		1328	1.3	40		1627	1.1	34		1722	1.4	43		1948	1.3	40		0528	1.6	49
	0733	1.4	43		2228	-0.5	-15		2345	0.2	6		2351	0.4	12		2351	0.4	12		1256	0.2	6
	2337	-0.3	-9		0657	1.4	43		0728	1.2	37		0639	1.3	40		0016	1.1	34		2110	1.8	55
7 Tu	0733	1.4	43	22 W	1105	1.2	37	7 F	1312	0.9	27	22 Sa	1230	0.6	18	7 M	0613	1.4	43	22 Tu	0228	1.5	46
	2337	-0.3	-9		1434	1.3	40		1748	1.0	30		1900	1.3	40		1321	0.6	18		0523	1.6	49
	0813	1.3	40		2312	-0.4	-12		0015	0.4	12		0042	0.7	21		2121	1.4	43		1358	0.1	3
	0846	1.2	37		0728	1.2	37		0746	1.2	37		0657	1.3	40		0052	1.3	40		2251	1.9	58
8 W	0813	1.3	40	23 Th	1202	1.1	34	8 Sa	1408	0.7	21	23 Su	1333	0.4	12	8 Tu	1408	0.5	15	23 W	1507	0.1	3
	0846	1.2	37		1555	1.2	37		1931	0.9	27		2050	1.3	40		2303	1.5	46		0551	1.4	43
	0017	-0.2	-6		2358	-0.2	-6		0044	0.6	18		0143	1.0	30		0142	1.3	40		1408	0.5	15
	0846	1.2	37		0755	1.2	37		0801	1.2	37		0712	1.3	40		0428	1.4	43		2303	1.5	46
9 Th	0017	-0.2	-6	24 F	1310	0.9	27	9 Su	1459	0.5	15	24 M	1438	0.1	3	9 W	1500	0.4	12	24 Th	0025	1.9	58
	0846	1.2	37		1744	1.0	30		2130	0.9	27		2247	1.4	43		0428	1.4	43		1621	0.1	3
	0055	0.1	3		0045	0.1	3		0114	0.8	24		0321	1.3	40		0142	1.3	40		0227	1.9	58
	0913	1.2	37		0818	1.2	37		0811	1.1	34		0720	1.4	43		1500	0.4	12		1735	0.2	6
10 F	0055	0.1	3	25 Sa	1422	0.6	18	10 M	1545	0.4	12	25 Tu	1545	0.0	0	10 Th	1557	0.3	9	25 F	0137	1.9	58
	0913	1.2	37		1958	0.9	27		2340	1.0	30		0	0	0		0041	1.6	49		1735	0.2	6
	0131	0.3	9		0138	0.4	12		0148	0.9	27		0037	1.6	49		0145	1.7	52		0227	1.9	58
	0935	1.1	34		0838	1.2	37		0808	1.1	34		1650	-0.1	-3		1656	0.2	6		1841	0.3	9
11 Sa	0131	0.3	9	26 Su	1528	0.3	9	11 Tu	1627	0.2	6	26 W	0037	1.6	49	11 F	0145	1.7	52	26 Sa	0227	1.9	58
	0935	1.1	34		2214	1.0	30		0456	1.2	37		0158	1.7	52		0227	1.7	52		0303	1.8	55
	1721	0.6	18		0242	0.8	24		1709	0.1	3		1753	-0.2	-6		1754	0.2	6		0902	1.5	46
	2123	0.7	21		0857	1.1	34		0	0	0		0	0	0227		1.7	52	1132		1.6	49	
12 Su	0207	0.5	15	27 M	1627	0.0	0	12 W	0	0	0	27 Th	0255	1.7	52	12 Sa	1754	0.2	6	27 Su	1938	0.4	12
	0951	1.1	34		0019	1.1	34		0229	1.3	40		0255	1.7	52		0259	1.8	55		0327	1.7	52
	1736	0.4	12		0428	1.0	30		1751	0.0	0		1852	-0.2	-6		1849	0.1	3		0909	1.4	43
	2347	0.8	24		0912	1.2	37		0	0	0		0	0	0259		1.8	55	1250		1.6	49	
13 M	0252	0.7	21	28 Tu	1722	-0.2	-6	13 Th	0303	1.5	46	28 F	0339	1.7	52	13 Su	0325	1.7	52	28 M	2024	0.5	15
	1004	1.0	30		0155	1.4	43		1834	-0.2	-6		0348	1.7	52		0820	1.5	46		0342	1.7	52
	1756	0.2	6		0719	1.1	34		0	0	0		0	0	1103		1.6	49	0920		1.3	40	
	0252	0.7	21		0923	1.2	37		0	0	0		0	0	1941		0.1	3	1355		1.6	49	
14 Tu	0146	1.0	30	29 W	1814	-0.4	-12	14 F	0337	1.5	46	29 Sa	0415	1.7	52	14 M	0348	1.7	52	29 Tu	2102	0.6	18
	0437	0.9	27		0300	1.5	46		1918	-0.2	-6		0947	1.4	43		0815	1.5	46		0342	1.7	52
	1011	1.0	30		1904	-0.5	-15		2033	0.0	0		1211	1.5	46		1246	1.7	52		0920	1.3	40
	1819	0.0	0		0351	1.6	49		0	0	0		2033	0.0	0		2031	0.1	3		1355	1.6	49
15 W	0248	1.1	34	30 Th	1952	-0.6	-18	15 Sa	0337	1.5	46	30 Su	0442	1.6	49	15 Tu	0348	1.7	52	30 W	0353	1.6	49
	0759	1.0	30		0351	1.6	49		1918	-0.2	-6		0952	1.4	43		0815	1.5	46		0933	1.2	37
	1004	1.1	34		1952	-0.6	-18		0	0	1317		1.5	46	1246		1.7	52	1453		1.6	49	
	1845	-0.2	-6		0351	1.6	49		0	0	2114		0.1	3	2031		0.1	3	2133		0.8	24	

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to mean lower low water which is the chart datum of soundings.
 On days when the tide is diurnal, high water has an approximate stand of about 7 hours. Predictions are for beginning of stand.

Galveston (Galveston Channel), Texas, 2020

Times and Heights of High and Low Waters

October				November				December			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>
1 Th ○	0402 1.6 49 0951 1.0 30 1550 1.6 49 2159 0.9 27	16 F ●	0310 1.6 49 0910 0.6 18 1605 1.9 58 2202 1.0 30	1 Su	0252 1.5 46 1007 0.3 9 1757 1.7 52 2243 1.4 43	16 M	0224 1.5 46 1022 -0.4 -12 1841 1.9 58	1 Tu	0125 1.3 40 1009 -0.3 -9 1841 1.5 46 2303 1.2 37	16 W	0158 1.3 40 1057 -0.8 -24 1936 1.4 43
2 F	0411 1.6 49 1013 0.9 27 1646 1.6 49 2225 1.1 34	17 Sa	0325 1.6 49 0955 0.3 9 1718 2.0 61 2259 1.3 40	2 M	0251 1.5 46 1036 0.2 6 1846 1.7 52 2319 1.4 43	17 Tu	0014 1.5 46 0233 1.6 49 1112 -0.4 -12 1947 1.9 58	2 W	0123 1.3 40 1043 -0.3 -9 1930 1.5 46	17 Th	1147 -0.7 -21 2034 1.3 40
3 Sa	0420 1.6 49 1041 0.7 21 1743 1.6 49 2254 1.2 37	18 Su	0339 1.6 49 1042 0.1 3 1832 2.0 61	3 Tu	0236 1.5 46 1108 0.2 6 1941 1.7 52 2357 1.5 46	18 W	1204 -0.4 -12 2058 1.8 55	3 Th	1121 -0.3 -9 2026 1.4 43	18 F	1238 -0.5 -15 2130 1.2 37
4 Su	0426 1.6 49 1111 0.6 18 1844 1.6 49 2326 1.4 43	19 M	0001 1.5 46 0351 1.7 52 1132 0.0 0 1949 2.1 64	4 W	0214 1.6 49 1144 0.2 6 2043 1.7 52	19 Th	1301 -0.2 -6 2212 1.7 52	4 F	1203 -0.3 -9 2125 1.4 43	19 Sa	1330 -0.3 -9 2216 1.1 34
5 M	0425 1.6 49 1145 0.5 15 1949 1.7 52	20 Tu	0125 1.6 49 0347 1.7 52 1226 0.0 0 2110 2.0 61	5 Th	1226 0.2 6 2155 1.7 52	20 F	1403 0.0 0 2318 1.6 49	5 Sa	1250 -0.2 -6 2216 1.4 43	20 Su	1425 0.0 0 2248 1.0 30
6 Tu	0004 1.5 46 0402 1.6 49 1222 0.5 15 2102 1.7 52	21 W	1326 0.0 0 2237 2.0 61	6 F	1315 0.2 6 2309 1.7 52	21 Sa ○	1514 0.2 6	6 Su	1342 -0.1 -3 2251 1.3 40	21 M ○	1526 0.2 6 2309 1.0 30
7 W	0050 1.5 46 0319 1.6 49 1305 0.4 12 2224 1.8 55	22 Th	1434 0.1 3 2359 1.9 58	7 Sa	1413 0.2 6	22 Su	0005 1.5 46 1631 0.3 9	7 M ○	1443 0.1 3 2315 1.2 37	22 Tu	0639 0.4 12 1108 0.6 18 1642 0.4 12 2324 0.9 27
8 Th	1356 0.4 12 2351 1.8 55	23 F ○	1551 0.3 9	8 Su	0002 1.7 52 1520 0.3 9	23 M	0033 1.4 43 0739 0.9 27 1048 1.0 30 1745 0.5 15	8 Tu	0650 0.7 21 0912 0.8 24 1554 0.3 9 2333 1.2 37	23 W	0654 0.2 6 1307 0.7 21 1809 0.6 18 2336 0.9 27
9 F ○	1457 0.4 12	24 Sa	0100 1.9 58 1711 0.4 12	9 M	0032 1.7 52 1633 0.4 12	24 Tu	0050 1.3 40 0747 0.7 21 1238 1.1 34 1849 0.7 21	9 W	0614 0.5 15 1151 0.9 27 1716 0.5 15 2349 1.1 34	24 Th	0712 0.0 0 1429 0.8 24 1927 0.7 21 2345 0.9 27
10 Sa	0057 1.8 55 1604 0.4 12	25 Su	0140 1.8 55 1822 0.5 15	10 Tu	0052 1.6 49 0726 1.2 37 1049 1.3 40 1746 0.5 15	25 W	0100 1.3 40 0801 0.5 15 1400 1.1 34 1943 0.8 24	10 Th	0638 0.2 6 1330 1.1 34 1842 0.7 21	25 F	0731 -0.2 -6 1522 1.0 30 2032 0.8 24 2353 0.9 27
11 Su	0137 1.8 55 1714 0.4 12	26 M	0204 1.7 52 0826 1.3 40 1207 1.4 43 1920 0.6 18	11 W	0108 1.5 46 0711 0.9 27 1246 1.4 43 1855 0.7 21	26 Th	0108 1.2 37 0815 0.3 9 1503 1.2 37 2029 0.9 27	11 F	0004 1.1 34 0713 -0.2 -6 1446 1.3 40 2001 0.9 27	26 Sa	0753 -0.4 -12 1602 1.1 34 2123 0.8 24
12 M	0203 1.8 55 1818 0.4 12	27 Tu	0218 1.6 49 0838 1.1 34 1326 1.5 46 2007 0.8 24	12 Th	0123 1.5 46 0736 0.6 18 1411 1.5 46 2000 0.9 27	27 F	0115 1.2 37 0831 0.2 6 1553 1.3 40 2108 1.1 34	12 Sa	0021 1.1 34 0753 -0.5 -15 1550 1.5 46 2111 1.1 34	27 Su	0000 0.9 27 0818 -0.5 -15 1637 1.1 34 2155 0.9 27
13 Tu	0222 1.8 55 0742 1.5 46 1157 1.6 49 1918 0.5 15	28 W	0227 1.6 49 0851 0.9 27 1431 1.5 46 2044 0.9 27	13 F	0137 1.4 43 0812 0.3 9 1525 1.7 52 2103 1.1 34	28 Sa	0121 1.2 37 0850 0.0 0 1636 1.4 43 2141 1.1 34	13 Su	0041 1.2 37 0836 -0.7 -21 1648 1.6 49 2212 1.1 34	28 M	0007 1.0 30 0846 -0.6 -18 1712 1.1 34 2204 0.9 27
14 W	0239 1.7 52 0756 1.2 37 1330 1.7 52 2014 0.6 18	29 Th	0234 1.5 46 0905 0.8 24 1528 1.5 46 2116 1.1 34	14 Sa ●	0153 1.4 43 0852 -0.1 -3 1632 1.8 55 2203 1.3 40	29 Su	0126 1.2 37 0913 -0.1 -3 1717 1.4 43 2210 1.2 37	14 M ●	0104 1.2 37 0922 -0.9 -27 1744 1.6 49 2305 1.2 37	29 Tu ○	0021 1.0 30 0917 -0.7 -21 1749 1.2 37 2208 0.9 27
15 Th	0254 1.6 49 0830 0.9 27 1450 1.8 55 2108 0.8 24	30 F	0241 1.5 46 0921 0.6 18 1620 1.6 49 2143 1.2 37	15 Su	0209 1.5 46 0936 -0.3 -9 1737 1.9 58 2305 1.4 43	30 M ○	0128 1.3 40 0939 -0.2 -6 1757 1.5 46 2237 1.2 37	15 Tu	0131 1.3 40 1009 -0.9 -27 1839 1.5 46 2355 1.2 37	30 W	0044 1.0 30 0951 -0.7 -21 1829 1.1 34 2222 0.9 27
		31 Sa ○	0248 1.5 46 0942 0.5 15 1709 1.7 52 2212 1.3 40							31 Th	0114 1.0 30 1028 -0.7 -21 1912 1.1 34 2248 0.9 27

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings. On days when the tide is diurnal, high water has an approximate stand of about 7 hours. Predictions are for beginning of stand.

Port O'Connor, Texas, 2020

Times and Heights of High and Low Waters

July				August				September																			
Time		Height		Time		Height		Time		Height		Time		Height													
h	m	ft	cm	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm												
1	0827	0.6	18	16	0731	0.5	15	1	0919	0.7	21	16	0831	0.8	24	1	0924	0.9	27	16	1153	1.1	34				
W	2028	-0.4	-12	Th	2018	-0.3	-9	Sa	2216	-0.4	-12	Su	2146	-0.2	-6	Tu	2322	0.3	9	W	2255	0.5	15				
2	0835	0.7	21	17	0757	0.6	18	2	1009	0.7	21	17	0926	0.8	24	2	0911	0.8	24	17	0821	1.0	30				
Th	2119	-0.5	-15	F	2106	-0.4	-12	Su	2308	-0.4	-12	M	2236	-0.1	-3	W	2345	0.4	12	Th	1050	0.9	27				
3	0915	0.7	21	18	0841	0.6	18	3	1051	0.7	21	18	1018	0.8	24	3	0900	0.8	24	18	1518	1.0	30				
F	2213	-0.5	-15	Sa	2157	-0.4	-12	M	2351	-0.3	-9	Tu	2321	-0.1	-3	Th				F	0625	0.9	27				
4	1005	0.7	21	19	0931	0.6	18	4	1110	0.6	18	19	1057	0.7	21	4	0007	0.5	15	19	0625	0.9	27				
Sa	2307	-0.5	-15	Su	2247	-0.4	-12	Tu				W				F	0825	0.8	24	Sa	1132	0.8	24				
O													1326	0.6	18	Sa	1326	0.6	18	Su	1755	1.0	30				
5	1057	0.7	21	20	1022	0.6	18	5	0024	-0.2	-6	20	0002	0.0	0	5	0032	0.6	18	20	0026	0.8	24				
Su	2358	-0.5	-15	M	2335	-0.4	-12	W	1101	0.5	15	Th	1441	0.7	21	Sa	0708	0.8	24	Sa	0502	0.9	27				
				●									1342	0.6	18	Su	1220	0.7	21	Su	2102	1.1	34				
6	1144	0.6	18	21	1108	0.6	18	6	0050	-0.1	-3	21	0041	0.1	3	6	0101	0.6	18	21	0113	0.9	27				
M				Tu				Th	1052	0.5	15	F	0934	0.6	18	Su	0621	0.8	24	Su	0406	1.0	30				
7	0044	-0.4	-12	22	0019	-0.4	-12	7	0112	0.0	0	22	0119	0.3	9	7	0539	0.8	24	21	0322	1.2	37				
Tu	1214	0.6	18	W	1140	0.5	15	F	1036	0.4	12	Sa	0747	0.5	15	M	1439	0.4	12	M	1407	0.5	15	Tu	1407	0.4	12
8	0123	-0.4	-12	23	0100	-0.3	-9	8	0133	0.1	3	23	0151	0.5	15	8	0448	0.9	27	22	0308	1.3	40				
W	1221	0.5	15	Th	1148	0.5	15	Sa	0941	0.4	12	Su	0652	0.6	18	Tu	1520	0.4	12	Tu	1509	0.4	12				
9	0154	-0.3	-9	24	0138	-0.2	-6	9	1558	0.2	6	24	0612	0.7	21	9	0317	1.0	30	23	0359	1.4	43				
Th	1219	0.4	12	F	1129	0.4	12	9	1836	0.3	9	M	1542	0.1	3	W	1611	0.4	12	W	1616	0.3	9				
10	0219	-0.2	-6	25	0212	-0.1	-3	10	0148	0.2	6	25	0553	0.8	24	9	0409	1.1	34	24	0455	1.4	43				
F	1211	0.4	12	Sa	1015	0.3	9	M	1607	0.2	6	Tu	1643	0.0	0	Th	1711	0.3	9	Th	1729	0.4	12				
11	0238	-0.1	-3	26	0237	0.1	3	11	0839	0.4	12	26	0601	0.9	27	10	0504	1.2	37	25	0550	1.4	43				
Sa	1138	0.3	9	Su	1640	0.0	0	Tu	1607	0.2	6	W	1748	0.0	0	F	1818	0.3	9	F	1843	0.4	12				
12	0234	0.0	0	27	0818	0.4	12	11	1711	0.0	0	27	0635	1.0	30	11	0601	1.2	37	26	0637	1.4	43				
Su	1029	0.3	9	M	1726	-0.2	-6	12	0627	0.6	18	28	0723	1.0	30	12	0601	1.2	37	Sa	1953	0.5	15				
1838	0.0	0	0	28	0743	0.5	15	W	1757	-0.1	-3	29	2009	0.0	0	13	0657	1.2	37	27	0707	1.3	40				
●				Tu	1818	-0.3	-9	13	0610	0.7	21	30	0723	1.0	30	14	0750	1.2	37	Su	2050	0.6	18				
13	0937	0.3	9	29	0732	0.6	18	Th	1852	-0.1	-3	31	0932	0.9	27	15	0834	1.2	37	28	0708	1.3	40				
M	1835	-0.1	-3	W	1915	-0.4	-12	14	0646	0.8	24	31	2251	0.2	6	Su	2027	0.3	9	M	2134	0.7	21				
14	0847	0.3	9	30	0751	0.7	21	14	1951	-0.1	-3	15	0736	0.8	24	12	0601	1.2	37	29	0702	1.2	37				
Tu	1900	-0.2	-6	Th	2016	-0.4	-12	15	0736	0.8	24	30	2050	-0.2	-6	13	0657	1.2	37	Tu	2204	0.8	24				
15	0801	0.4	12	31	0830	0.7	21	30	2050	-0.2	-6	31	0932	0.9	27	14	0750	1.2	37	30	0655	1.2	37				
W	1935	-0.3	-9	F	2117	-0.4	-12	31	0932	0.9	27	31	2251	0.2	6	15	2210	0.4	12	W	2228	0.9	27				

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Padre Island (south end), Texas, 2020

Times and Heights of High and Low Waters

July				August				September																					
Time		Height		Time		Height		Time		Height		Time		Height															
h	m	ft	cm	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm														
1	W	0219	1.2	37	16	Th	0308	1.2	37	1	Sa	0425	1.6	49	16	Su	0346	1.7	52	1	Tu	0440	1.6	49	16	W	0330	1.8	55
		1748	-0.8	-24			1747	-0.4	-12			1917	-0.9	-27			1845	-0.4	-12			0858	1.5	46			0817	1.5	46
																						1221	1.6	49			1225	1.7	52
																						2046	0.2	6			2015	0.4	12
2	Th	0326	1.4	43	17	F	0341	1.3	40	2	Su	0508	1.6	49	17	M	0420	1.7	52	2	W	0452	1.6	49	17	Th	0337	1.7	52
		1835	-1.1	-34			1825	-0.6	-18			2007	-0.8	-24			1934	-0.4	-12			0912	1.4	43			0832	1.3	40
																						1338	1.6	49			1400	1.8	55
																						2127	0.4	12			2111	0.6	18
3	F	0423	1.5	46	18	Sa	0418	1.4	43	3	M	0545	1.5	46	18	Tu	0450	1.7	52	3	Th	0457	1.5	46	18	F	0337	1.5	46
		1922	-1.2	-37			1905	-0.7	-21			2053	-0.6	-18			2023	-0.4	-12			0933	1.2	37			0902	1.0	30
																						1446	1.5	46			1529	1.8	55
																						2205	0.7	21			2211	0.9	27
4	Sa	0516	1.5	46	19	Su	0456	1.5	46	4	Tu	0615	1.4	43	19	W	0513	1.6	49	4	F	0453	1.4	43	19	Sa	0330	1.4	43
		2011	-1.2	-37			1947	-0.8	-24			2136	-0.4	-12			0958	1.3	40			0959	1.1	34			0941	0.6	18
																						1554	1.5	46			1700	1.9	58
																						2242	0.9	27			2318	1.2	37
5	Su	0607	1.5	46	20	M	0535	1.5	46	5	W	0635	1.4	43	20	Th	0527	1.5	46	5	Sa	0441	1.3	40	20	Su	0313	1.4	43
		2058	-1.1	-34			2031	-0.8	-24			1101	1.2	37			1005	1.2	37			1027	0.9	27			1026	0.3	9
																						1705	1.5	46			1836	1.9	58
																						2320	1.0	30					
6	M	0653	1.5	46	21	Tu	0612	1.6	49	6	Th	0646	1.3	40	21	F	0531	1.3	40	6	Su	0421	1.3	40	21	M	1117	0.1	3
		2144	-0.9	-27			2116	-0.8	-24			1121	1.1	34			1033	1.0	30			1057	0.8	24			2021	1.9	58
																						1825	1.5	46					
7	Tu	0732	1.4	43	22	W	0643	1.5	46	7	F	0647	1.2	37	22	Sa	0528	1.2	37	7	M	0005	1.2	37	22	Tu	1214	-0.1	-3
		2228	-0.6	-18			2201	-0.6	-18			1151	1.0	30			1113	0.6	18			0351	1.3	40			2210	2.0	61
																						1133	0.6	18					
																						2003	1.5	46					
8	W	0802	1.3	40	23	Th	0705	1.4	43	8	Sa	0640	1.1	34	23	Su	0517	1.1	34	8	Tu	1216	0.5	15	23	W	1318	-0.1	-3
		2310	-0.4	-12			2248	-0.4	-12			1227	0.8	24			1201	0.3	9			2205	1.5	46			2342	2.1	64
9	Th	0820	1.3	40	24	F	0716	1.3	40	9	Su	0625	1.1	34	24	M	0056	1.0	30	9	W	1307	0.4	12	24	Th	1429	0.0	0
		2349	-0.1	-3			1258	0.9	27			1306	0.6	18			0455	1.2	37			2350	1.7	52					
10	F	0828	1.2	37	25	Sa	0717	1.1	34	10	M	0028	0.9	27	25	Tu	1356	-0.2	-6	10	Th	1408	0.3	9	25	F	0049	2.1	64
11	Sa	0025	0.2	6	26	Su	0029	0.3	9	11	Tu	0059	0.9	27	26	W	0003	1.6	49	11	F	0052	1.8	55	26	Sa	0137	2.1	64
		0826	1.1	34			0711	1.0	30			0522	1.1	34			1502	-0.3	-9			1515	0.3	9			1655	0.3	9
		1525	0.6	18			1400	0.3	9			1434	0.3	9															
		1856	0.7	21			2049	0.9	27																				
12	Su	0059	0.5	15	27	M	0130	0.7	21	12	W	0126	1.2	37	27	Th	0126	1.7	52	12	Sa	0137	1.9	58	27	Su	0212	2.0	61
		0816	1.0	30			0654	1.0	30			1523	0.1	3			1609	-0.4	-12			1622	0.2	6			1801	0.5	15
		1541	0.5	15			1448	-0.1	-3																				
		2229	0.8	24			2340	1.0	30																				
13	M	0130	0.7	21	28	Tu	0313	0.9	27	13	Th	0200	1.3	40	28	F	0225	1.8	55	13	Su	0216	2.0	61	28	M	0237	2.0	61
		0756	1.0	30			0613	1.0	30			1614	-0.1	-3			1715	-0.4	-12			1724	0.2	6			0752	1.6	49
		1608	0.2	6			1540	-0.4	-12																				
14	Tu	0719	1.0	30	29	W	0136	1.3	40	14	F	0234	1.5	46	29	Sa	0311	1.8	55	14	M	0248	2.0	61	29	Tu	0252	1.9	58
		1638	0.0	0			1635	-0.7	-21			1705	-0.2	-6			1816	-0.3	-9			1823	0.2	6			0750	1.6	49
15	W	0236	1.1	34	30	Th	0243	1.5	46	15	Sa	0310	1.6</																

Tampico Harbor (Madero), Mexico, 2020

Times and Heights of High and Low Waters

July				August				September																					
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 W	0142	1.2	37		16 Th	0243	1.3	40		1 Sa	0352	1.4	43		16 Su	0323	1.6	49		1 Tu	0358	1.3	40		16 W	0258	1.6	49	
	1736	-0.4	-12			1724	-0.2	-6			1907	-0.5	-15			1825	-0.2	-6		○	0833	1.1	34			0807	1.3	40	
																					1236	1.3	40			1215	1.6	49	
																					2025	0.2	6			1955	0.3	9	
2 Th	0254	1.4	43		17 F	0318	1.4	43		2 Su	0429	1.4	43		17 M	0349	1.6	49		2 W	0358	1.2	37		17 Th	0304	1.5	46	
	1826	-0.6	-18			1807	-0.3	-9			1954	-0.5	-15			1915	-0.2	-6			0834	1.0	30			0817	1.1	34	
																					1345	1.3	40			1342	1.6	49	
																					2058	0.3	9		●	2045	0.5	15	
3 F	0346	1.4	43		18 Sa	0351	1.4	43		3 M	0500	1.3	40		18 Tu	0411	1.6	49		3 Th	0358	1.2	37		18 F	0310	1.4	43	
	1915	-0.7	-21			1850	-0.4	-12			2033	-0.4	-12			2002	-0.2	-6			0846	0.9	27			0840	0.9	27	
																					1443	1.3	40			1500	1.7	52	
																					2131	0.5	15			2137	0.7	21	
4 Sa	0434	1.4	43		19 Su	0424	1.5	46		4 Tu	0521	1.2	37		19 W	0427	1.5	46		4 F	0401	1.2	37		19 Sa	0316	1.3	40	
	2000	-0.8	-24			1931	-0.5	-15			0934	1.0	30			0911	1.3	40			0909	0.8	24			0915	0.6	18	
																					1537	1.4	43			1618	1.7	52	
																					2207	0.7	21			2242	1.0	30	
5 Su	0521	1.3	40		20 M	0458	1.5	46		5 W	0531	1.1	34		20 Th	0439	1.5	46		5 Sa	0406	1.2	37		20 Su	0321	1.3	40	
	2041	-0.7	-21			2012	-0.5	-15			0934	1.0	30			0922	1.2	37			0940	0.7	21			0959	0.3	9	
																					1640	1.4	43			1748	1.7	52	
																					2255	0.9	27						
6 M	0601	1.3	40		21 Tu	0529	1.5	46		6 Th	0538	1.1	34		21 F	0448	1.4	43		6 Su	0409	1.2	37		21 M	0019	1.2	37	
	2121	-0.6	-18			2052	-0.5	-15			0952	0.9	27			0950	1.0	30			1022	0.6	18			0319	1.3	40	
																					1755	1.4	43			1057	0.1	3	
																											1927	1.7	52
7 Tu	0633	1.2	37		22 W	0555	1.5	46		7 F	0545	1.1	34		22 Sa	0456	1.3	40		7 M	0009	1.1	34		22 Tu	1202	0.0	0	
	2201	-0.4	-12			2135	-0.3	-9			1033	0.8	24			1037	0.7	21			0403	1.2	37			2201	1.7	52	
																					1115	0.5	15						
																					1923	1.4	43						
8 W	0656	1.1	34		23 Th	0614	1.4	43		8 Sa	0552	1.1	34		23 Su	0503	1.2	37		8 Tu	1209	0.4	12		23 W	1305	0.0	0	
	2245	-0.2	-6			1156	1.1	34			1133	0.7	21			1138	0.5	15			2229	1.4	43			2323	1.7	52	
						1405	1.2	37			1727	1.1	34			1838	1.4	43											
						2223	-0.1	-3			2358	0.7	21																
9 Th	0712	1.1	34		24 F	0627	1.3	40		9 Su	0557	1.1	34		24 M	0048	1.0	30		9 W	1259	0.4	12		24 Th	1411	0.0	0	
	1303	0.8	24			1210	1.0	30			1224	0.6	18			0505	1.2	37			2333	1.6	49						
	1512	0.9	27			1541	1.1	34			1903	1.1	34			1238	0.3	9											
	2333	0.1	3			2321	0.2	6							2119	1.4	43												
10 F	0722	1.0	30		25 Sa	0636	1.2	37		10 M	0050	0.9	27		25 Tu	0230	1.1	34		10 Th	1352	0.3	9		25 F	0027	1.7	52	
	1316	0.8	24			1244	0.8	24			0556	1.1	34			0440	1.2	37											
	1642	0.9	27			1732	1.1	34			1310	0.5	15			1336	0.1	3											
											2232	1.1	34		○	2329	1.5	46			○								
11 Sa	0021	0.3	9		26 Su	0023	0.5	15		11 Tu	0152	1.0	30		26 W	1442	-0.1	-3		11 F	0030	1.6	49		26 Sa	0127	1.6	49	
	0731	1.0	30			0643	1.1	34			0530	1.1	34								1453	0.3	9			1644	0.2	6	
	1344	0.7	21			1326	0.5	15			1358	0.3	9																
	1838	0.8	24			1941	1.0	30																					
12 Su	0104	0.6	18		27 M	0126	0.8	24		12 W	0005	1.3	40		27 Th	0100	1.6	49		12 Sa	0125	1.7	52		27 Su	0208	1.5	46	
	0736	1.0	30			0646	1.1	34			1452	0.2	6			1555	-0.1	-3			1600	0.2	6			1749	0.3	9	
	1423	0.5	15			1418	0.3	9																					
	2203	0.9	27			2253	1.2	37																					
13 M	0150	0.8	24		28 Tu	0320	1.0	30		13 Th	0132	1.4	43		28 F	0210	1.6	49		13 Su	0205	1.8	55		28 M	0228	1.4	43	
	0733	1.0	30			0637	1.1	34			1550	0.1	3			1702	-0.2	-6			1702	0.2	6			0746	1.2	37	
	1511	0.4	12			1519	0.0	0																					
14 Tu	0000	1.0	30		29 W	0053	1.3	40		14 F	0220	1.5	46		29 Sa	0255	1.6	49		14 M	0232	1.8	55		29 Tu	0230	1.4	43	
	0410	0.9	27			1620	-0.2	-6			1644	0.0	0			1804	-0.1	-3			1802	0.2	6			0740	1.1	34	
	0707	1.0	30																										
	1558	0.2	6			</																							

Tampico Harbor (Madero), Mexico, 2020

Times and Heights of High and Low Waters

October				November				December																					
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 Th	0221	1.3	40		16 F	0126	1.4	43		1 Su	0002	1.2	37		16 M	0838	-0.5	-15		1 Tu	0825	-0.3	-9		16 W	0913	-0.8	-24	
	0755	0.8	24			0740	0.6	18			0815	0.2	6			1736	1.8	55			1752	1.5	46			1840	1.4	43	
	1425	1.5	46		●	1431	1.8	55		○	1645	1.6	49		○														
	2052	0.8	24			2054	0.9	27																					
2 F	0222	1.2	37		17 Sa	0133	1.3	40		2 M	0844	0.1	3		17 Tu	0923	-0.6	-18		2 W	0857	-0.4	-12		17 Th	1000	-0.7	-21	
	0814	0.7	21			0814	0.3	9			1740	1.6	49			1843	1.7	52			1835	1.5	46			1924	1.3	40	
	1517	1.5	46			1544	1.8	55																					
	2126	1.0	30			2158	1.1	34																					
3 Sa	0225	1.2	37		18 Su	0136	1.3	40		3 Tu	0916	0.0	0		18 W	1013	-0.5	-15		3 Th	0932	-0.3	-9		18 F	1052	-0.5	-15	
	0840	0.6	18			0853	0.0	0			1835	1.6	49			1953	1.6	49			1917	1.5	46			2004	1.2	37	
	1611	1.6	49			1702	1.8	55																					
	2209	1.1	34																										
4 Su	0225	1.2	37		19 M	0937	-0.1	-3		4 W	0952	0.0	0		19 Th	1112	-0.4	-12		4 F	1013	-0.2	-6		19 Sa	1147	-0.2	-6	
	0909	0.4	12			1825	1.8	55			1937	1.6	49			2119	1.5	46			2005	1.6	49			2034	1.1	34	
	1712	1.6	49																										
	2353	1.2	37																										
5 M	0210	1.3	40		20 Tu	1031	-0.2	-6		5 Th	1035	0.0	0		20 F	1213	-0.2	-6		5 Sa	1103	-0.1	-3		20 Su	1237	0.1	3	
	0943	0.4	12			1956	1.8	55			2110	1.7	52			2213	1.4	43			2053	1.6	49			2048	1.0	30	
	1820	1.6	49																										
6 Tu	1024	0.3	9		21 W	1134	-0.2	-6		6 F	1129	0.1	3		21 Sa	1311	0.1	3		6 Su	1200	0.0	0		21 M	0338	0.7	21	
	1938	1.6	49			2154	1.7	52			2210	1.7	52			2237	1.3	40			2122	1.5	46			0610	0.8	24	
															○														
7 W	1114	0.3	9		22 Th	1239	-0.1	-3		7 Sa	1226	0.2	6		22 Su	1409	0.3	9		7 M	1257	0.2	6		22 Tu	0345	0.6	18	
	2200	1.7	52			2256	1.7	52			2243	1.8	55			2246	1.2	37			2136	1.4	43			0920	0.8	24	
8 Th	1209	0.3	9		23 F	1342	0.1	3		8 Su	1325	0.3	9		23 M	0532	0.8	24		8 Tu	1359	0.5	15		23 W	0407	0.4	12	
	2255	1.7	52			2339	1.6	49			2303	1.7	52			0835	0.9	27			2144	1.3	40			1130	0.9	27	
																1523	0.6	18											
																2247	1.2	37											
9 F	1303	0.3	9		24 Sa	1454	0.3	9		9 M	1433	0.4	12		24 Tu	0525	0.8	24		9 W	0438	0.7	21		24 Th	0435	0.2	6	
	2335	1.8	55								2315	1.6	49			1058	1.0	30			1009	1.0	30			1330	1.0	30	
																1645	0.8	24			1532	0.7	21						
																2247	1.1	34			2150	1.2	37						
10 Sa	1403	0.3	9		25 Su	0010	1.5	46		10 Tu	1559	0.6	18		25 W	0535	0.6	18		10 Th	0455	0.4	12		25 F	0507	0.0	0	
						1614	0.5	15			2323	1.5	46			1225	1.1	34			1159	1.2	37			1440	1.2	37	
																1809	0.9	27			1726	0.9	27						
																2246	1.1	34			2157	1.1	34						
11 Su	0011	1.8	55		26 M	0026	1.4	43		11 W	0555	1.0	30		26 Th	0555	0.4	12		11 F	0529	0.0	0		26 Sa	0543	-0.2	-6	
	1516	0.4	12			0645	1.1	34			1100	1.3	40			1355	1.3	40			1345	1.4	43			1520	1.3	40	
						1026	1.2	37			1724	0.8	24			1943	1.0	30			1943	1.0	30						
						1723	0.6	18			2330	1.4	43			2245	1.1	34			2159	1.1	34						
12 M	0042	1.8	55		27 Tu	0028	1.3	40		12 Th	0607	0.7	21		27 F	0620	0.2	6		12 Sa	0610	-0.3	-9		27 Su	0620	-0.3	-9	
	1630	0.4	12			0638	1.0	30			1233	1.5	46			1453	1.4	43			1458	1.5	46			1556	1.3	40	
						1144	1.3	40			1853	0.9	27																
						1830	0.8	24			2336	1.3	40																
13 Tu	0102	1.7	52		28 W	0025	1.2	37		13 F	0637	0.3	9		28 Sa	0650	0.0	0		13 Su	0657	-0.6	-18		28 M	0659	-0.5	-15	
	0734	1.3	40			0645	0.8	24			1405	1.6	49			1539	1.4	43			1557	1.6	49			1632	1.4	43	
	1010	1.4	43			1301	1.4	43			2014	1.0	30																
	1740	0.5	15			1930	0.9	27			2341	1.2	37																
14 W	0112	1.6	49		29 Th	0024	1.2	37		14 Sa	0714	0.0	0		29 Su	0722	-0.2	-6		14 M	0743	-0.8	-24		29 Tu	0735	-0.5	-15	
	0704	1.2	37			0700	0.7	21			1517	1.7	52			1623	1.5	46			1655	1.6	49			1707	1.4	43	
	1141	1.5	46			1410	1.5	46			2125	1.1	34																
	1850	0.6	18			2018	1.0	30			2336	1.2	37																
15 Th	0119	1.5	46		30 F	0024	1																						

Cristobal (Colon), Panama, 2020

Times and Heights of High and Low Waters

July				August				September																					
Time	Height			Time	Height			Time	Height			Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm										
1 W	0424	-0.1	-3		16 Th	0504	0.0	0		1 Sa	0613	-0.3	-9		16 Su	0542	-0.1	-3		1 Tu	0717	0.0	0		16 W	0541	0.0	0	
	0851	0.2	6			0905	0.1	3			1136	0.1	3			1023	0.1	3			1327	0.4	12			1134	0.5	15	
	1349	-0.2	-6			1309	0.0	0			1438	0.0	0			1342	0.0	0			1645	0.3	9			1633	0.2	6	
	2136	1.4	43			2127	1.1	34			2252	1.3	40			2206	1.2	37							2318	0.9	27		
2 Th	0535	-0.2	-6		17 F	0601	-0.1	-3		2 Su	0712	-0.3	-9		17 M	0627	-0.1	-3		2 W	0013	0.9	27		17 Th	0620	0.0	0	
	1015	0.1	3			1019	0.0	0			1309	0.1	3			1127	0.1	3			0803	0.0	0			1234	0.7	21	
	1419	-0.1	-3			1312	-0.1	-3			1510	0.0	0			1426	0.0	0			1429	0.4	12			1813	0.2	6	
	2223	1.4	43			2202	1.2	37			2342	1.3	40			2252	1.2	37			1815	0.3	9						
3 F	0640	-0.3	-9		18 Sa	0656	-0.2	-6		3 M	0806	-0.2	-6		18 Tu	0709	-0.1	-3		3 Th	0110	0.8	24		18 F	0027	0.8	24	
	1153	0.0	0			2241	1.2	37			0				1239	0.2	6			0841	0.1	3			0700	0.1	3		
	1447	-0.1	-3								0				1531	0.1	3			1513	0.5	15			1333	0.8	24		
	2312	1.4	43								0				2342	1.1	34			2000	0.4	12			1954	0.2	6		
4 Sa	0739	-0.4	-12		19 Su	0744	-0.2	-6		4 Tu	0032	1.1	34		19 W	0746	-0.1	-3		4 F	0212	0.7	21		19 Sa	0145	0.7	21	
						2324	1.3	40			0854	-0.2	-6			1344	0.3	9			0911	0.1	3			0743	0.1	3	
															1706	0.2	6			1546	0.6	18			1428	1.0	30		
																					2133	0.3	9			2121	0.0	0	
5 Su	0002	1.4	43		20 M	0825	-0.2	-6		5 W	0122	1.0	30		20 Th	0038	1.0	30		5 Sa	0316	0.6	18		20 Su	0306	0.6	18	
	0834	-0.4	-12								0935	-0.2	-6			0821	-0.1	-3			0935	0.2	6			0829	0.1	3	
											1649	0.4	12			1438	0.5	15			1614	0.7	21			1521	1.1	34	
											1853	0.3	9			1901	0.3	9			2244	0.2	6			2234	-0.1	-3	
6 M	0053	1.3	40		21 Tu	0009	1.2	37		6 Th	0213	0.9	27		21 F	0140	0.9	27		6 Su	0418	0.5	15		21 M	0422	0.5	15	
	0922	-0.4	-12			0859	-0.3	-9			1007	-0.1	-3			0854	-0.1	-3			0954	0.2	6			0916	0.1	3	
											1700	0.5	15			1526	0.6	18			1640	0.8	24			1613	1.3	40	
											2049	0.4	12			2050	0.2	6			2338	0.2	6			2336	-0.2	-6	
7 Tu	0144	1.2	37		22 W	0058	1.2	37		7 F	0303	0.8	24		22 Sa	0247	0.8	24		7 M	0514	0.5	15		22 Tu	0529	0.5	15	
	1005	-0.4	-12			0928	-0.3	-9			1033	-0.1	-3			0929	-0.1	-3			1012	0.2	6			1006	0.1	3	
											1732	0.6	18			1612	0.8	24			1706	0.9	27			1704	1.4	43	
											2224	0.4	12			2223	0.1	3											
8 W	0233	1.1	34		23 Th	0150	1.1	34		8 Sa	0354	0.7	21		23 Su	0357	0.7	21		8 Tu	0024	0.1	3		23 W	0031	-0.3	-9	
	1041	-0.4	-12			0955	-0.3	-9			1055	0.0	0			1004	-0.1	-3			0601	0.4	12			0629	0.5	15	
	1805	0.4	12			1649	0.4	12			1753	0.7	21			1657	1.0	30			1031	0.2	6			1056	0.2	6	
	2026	0.3	9			1952	0.3	9			2341	0.3	9			2341	0.0	0			1735	1.0	30			1754	1.4	43	
9 Th	0319	1.0	30		24 F	0244	1.0	30		9 Su	0444	0.6	18		24 M	0505	0.5	15		9 W	0105	0.0	0		24 Th	0123	-0.3	-9	
	1113	-0.3	-9			1022	-0.3	-9			1113	0.0	0			1042	-0.1	-3			0642	0.4	12			0722	0.5	15	
	1826	0.5	15			1712	0.6	18			1815	0.8	24			1742	1.2	37			1052	0.2	6			1146	0.2	6	
	2206	0.4	12			2149	0.3	9													1807	1.1	34			1844	1.4	43	
10 F	0404	0.8	24		25 Sa	0342	0.8	24		10 M	0043	0.2	6		25 Tu	0047	-0.1	-3		10 Th	0144	0.0	0		25 F	0213	-0.3	-9	
	1139	-0.3	-9			1050	-0.3	-9			0535	0.5	15			0610	0.5	15			0717	0.3	9			0812	0.5	15	
	1849	0.6	18			1744	0.8	24			1129	0.0	0			1121	0.0	0			1118	0.2	6			1236	0.2	6	
	2333	0.4	12			2325	0.2	6			1839	0.9	27			1828	1.3	40			1842	1.1	34			1933	1.3	40	
11 Sa	0448	0.7	21		26 Su	0443	0.7	21		11 Tu	0137	0.1	3		26 W	0147	-0.2	-6		11 F	0224	0.0	0		26 Sa	0301	-0.2	-6	
	1200	-0.2	-6			1119	-0.2	-6			1146	0.0	0			0712	0.4	12			0749	0.3	9			0901	0.5	15	
	1912	0.7	21			1821	1.0	30			1905	1.0	30			1201	0.0	0			1148	0.2	6			1326	0.2	6	
															1915	1.4	43			1919	1.2	37			2022	1.2	37		
12 Su	0050	0.3	9		27 M	0047	0.1	3		12 W	0227	0.1	3		27 Th	0244	-0.2	-6		12 Sa	0304	0.0	0		27 Su	0348	-0.1	-3	
	0533	0.6	18			0546	0.5	15			0711	0.3	9			0810	0.3	9			0822	0.3	9			0950	0.5	15	
	1219	-0.1	-3			1149	-0.2	-6			1203	0.1	3			1243	0.0	0			1224	0.1	3			1419	0.2	6	
	1935	0.8	24			1901	1.2	37			1935	1.1	34			2002	1.4	43			1959	1.2	37			2110	1.1	34	
13 M	0200	0.2	6		28 Tu	0200	0.0	0		13 Th	0315	0.0	0		28 F	0339	-0.2	-6		13 Su	0343	0.0	0		28 M	0434	0.0	0	
	0620	0.4	12			0650	0.4	12			0756	0.2	6			0907	0.3	9			0859	0.3	9			1040	0.5	15	
	1235	-0.1	-3			1222	-0.2	-6			1222	0.0	0			1324	0.0	0			1308	0.1	3			1517	0.3	9	
	1959	0.9	27			1944	1																						

St. Georges Island, Bermuda, 2020

Times and Heights of High and Low Waters

January				February				March						
Time	Height			Time	Height			Time	Height			Time	Height	
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm
1 W	0023	2.1	64		16 Th	0029	2.6	79		1 Su	0024	2.3	70	
	0621	0.4	12			0636	0.0	0			0643	0.3	9	
	1236	2.3	70			1246	2.6	79			1232	1.8	55	
	1900	0.3	9			1907	-0.2	-6			1837	0.2	6	
2 Th	0115	2.1	64		17 F	0130	2.6	79		2 M	0113	2.2	67	
	0716	0.6	18			0744	0.1	3			0740	0.4	12	
	1323	2.1	64			1346	2.3	70			1324	1.7	52	
	1945	0.4	12			2003	-0.1	-3			1927	0.2	6	
3 F	0209	2.1	64		18 Sa	0236	2.6	79		3 Tu	0213	2.2	67	
	0818	0.6	18			0857	0.2	6			0847	0.5	15	
	1416	2.0	61			1452	2.1	64			1428	1.6	49	
	2033	0.4	12			2104	-0.1	-3			2030	0.2	6	
4 Sa	0306	2.2	67		19 Su	0343	2.7	82		4 W	0320	2.3	70	
	0923	0.6	18			1010	0.2	6			0958	0.4	12	
	1513	1.9	58			1600	2.0	61			1541	1.6	49	
	2123	0.4	12			2206	-0.1	-3			2141	0.2	6	
5 Su	0401	2.3	70		20 M	0446	2.8	85		5 Th	0428	2.4	73	
	1025	0.5	15			1118	0.1	3			1103	0.2	6	
	1610	1.9	58			1706	2.0	61			1650	1.8	55	
	2213	0.3	9			2306	-0.1	-3			2250	0.0	0	
6 M	0452	2.5	76		21 Tu	0545	2.9	88		6 F	0529	2.6	79	
	1121	0.4	12			1217	0.0	0			1159	0.0	0	
	1705	1.9	58			1806	2.0	61			1751	2.0	61	
	2303	0.2	6								2352	-0.2	-6	
7 Tu	0541	2.7	82		22 W	0002	-0.1	-3		7 Sa	0624	2.9	88	
	1211	0.3	9			0638	2.9	88			1249	-0.2	-6	
	1756	2.0	61			1308	-0.1	-3			1845	2.3	70	
	2350	0.1	3			1858	2.1	64						
8 W	0627	2.9	88		23 Th	0053	-0.2	-6		8 Su	0048	-0.5	-15	
	1257	0.1	3			0725	3.0	91			0714	3.0	91	
	1843	2.1	64			1353	-0.1	-3			1335	-0.5	-15	
						1945	2.2	67			1936	2.6	79	
9 Th	0037	-0.1	-3		24 F	0140	-0.2	-6		9 M	0141	-0.7	-21	
	0711	3.0	91			0809	3.0	91			0802	3.1	94	
	1341	-0.1	-3			1434	-0.2	-6			1419	-0.6	-18	
	1929	2.2	67			2027	2.2	67			2025	2.9	88	
10 F	0123	-0.2	-6		25 Sa	0223	-0.2	-6		10 Tu	0233	-0.8	-24	
	0756	3.2	98			0849	2.9	88			0849	3.1	94	
	1424	-0.2	-6			1513	-0.2	-6			1503	-0.8	-24	
	2014	2.3	70			2107	2.2	67			2113	3.0	91	
11 Sa	0210	-0.3	-9		26 Su	0304	-0.2	-6		11 W	0324	-0.8	-24	
	0841	3.3	101			0927	2.8	85			0935	3.0	91	
	1508	-0.3	-9			1549	-0.1	-3			1546	-0.8	-24	
	2100	2.4	73			2146	2.3	70			2202	3.1	94	
12 Su	0257	-0.4	-12		27 M	0344	-0.1	-3		12 Th	0416	-0.7	-21	
	0926	3.3	101			1004	2.7	82			1023	2.8	85	
	1552	-0.3	-9			1624	-0.1	-3			1631	-0.7	-21	
	2148	2.5	76			2224	2.2	67			2252	3.1	94	
13 M	0346	-0.4	-12		28 Tu	0423	0.0	0		13 F	0509	-0.5	-15	
	1013	3.2	98			1039	2.6	79			1111	2.6	79	
	1637	-0.4	-12			1658	0.0	0			1718	-0.6	-18	
	2238	2.5	76			2302	2.2	67			2344	3.0	91	
14 Tu	0438	-0.3	-9		29 W	0503	0.1	3		14 Sa	0606	-0.3	-9	
	1101	3.1	94			1115	2.4	73			1204	2.3	70	
	1725	-0.3	-9			1732	0.0	0			1809	-0.4	-12	
	2331	2.5	76			2342	2.2	67						
15 W	0535	-0.2	-6		30 Th	0545	0.2	6		15 Su	0041	2.8	85	
	1152	2.8	85			1152	2.2	67			0708	0.0	0	
	1814	-0.3	-9			1808	0.1	3			1302	2.0	61	
											1906	-0.1	-3	
					31 F	0025	2.2	67		31 Tu	0037	2.4	73	
						0632	0.4	12			0708	0.4	12	
						1232	2.0	61			1253	1.7	52	
						1846	0.2	6			1852	0.2	6	

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

St. Georges Island, Bermuda, 2020

Times and Heights of High and Low Waters

April				May				June																					
Time	Height			Time	Height			Time	Height			Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm										
1 W	0136	2.3	7.0		16 Th	0334	2.3	7.0		1 F	0218	2.5	7.6		16 Sa	0351	2.2	6.7		1 M	0402	2.5	7.6		16 Tu	0441	2.1	6.4	
	0813	0.4	1.2			1008	0.3	0.9			0853	0.3	0.9			1015	0.3	0.9			1020	-0.1	-0.3			1048	0.3	0.9	
	1358	1.7	5.2			1610	1.8	5.5			1454	2.0	6.1			1630	2.1	6.4			1645	2.8	8.5			1719	2.5	7.6	
	1958	0.2	0.6			2211	0.3	0.9			2055	0.2	0.6			2236	0.4	1.2			2301	0.0	0.0			2339	0.4	1.2	
2 Th	0245	2.4	7.3		17 F	0438	2.3	7.0		2 Sa	0326	2.5	7.6		17 Su	0445	2.2	6.7		2 Tu	0503	2.5	7.6		17 W	0530	2.1	6.4	
	0923	0.3	0.9			1105	0.3	0.9			0956	0.1	0.3			1101	0.3	0.9			1114	-0.2	-0.6			1131	0.2	0.6	
	1513	1.7	5.2			1710	2.0	6.1			1603	2.2	6.7			1719	2.3	7.0			1742	3.0	9.1			1802	2.7	8.2	
	2114	0.2	0.6			2312	0.3	0.9			2209	0.1	0.3			2329	0.4	1.2											
3 F	0355	2.5	7.6		18 Sa	0531	2.3	7.0		3 Su	0430	2.6	7.9		18 M	0532	2.2	6.7		3 W	0003	-0.1	-0.3		18 Th	0026	0.3	0.9	
	1029	0.2	0.6			1150	0.2	0.6			1052	-0.1	-0.3			1141	0.2	0.6			0600	2.5	7.6			0615	2.1	6.4	
	1625	1.9	5.8			1758	2.1	6.4			1706	2.5	7.6			1801	2.4	7.3			1206	-0.4	-1.2			1212	0.2	0.6	
	2227	0.0	0.0								2316	-0.1	-0.3								1835	3.3	10.1			1844	2.8	8.5	
4 Sa	0500	2.6	7.9		19 Su	0003	0.2	0.6		4 M	0529	2.7	8.2		19 Tu	0016	0.3	0.9		4 Th	0059	-0.2	-0.6		19 F	0109	0.2	0.6	
	1126	0.0	0.0			0615	2.3	7.0			1144	-0.3	-0.9			0614	2.2	6.7			0654	2.5	7.6			0657	2.1	6.4	
	1728	2.2	6.7			1229	0.1	0.3			1802	2.8	8.5			1218	0.1	0.3			1256	-0.4	-1.2			1252	0.1	0.3	
	2333	-0.2	-0.6			1838	2.3	7.0								1840	2.6	7.9			1926	3.4	10.4			1924	2.9	8.8	
5 Su	0557	2.8	8.5		20 M	0047	0.1	0.3		5 Tu	0017	-0.3	-0.9		20 W	0058	0.2	0.6		5 F	0152	-0.3	-0.9		20 Sa	0151	0.2	0.6	
	1217	-0.3	-0.9			0654	2.4	7.3			0624	2.7	8.2			0653	2.2	6.7			0746	2.5	7.6			0739	2.2	6.7	
	1823	2.6	7.9			1303	0.0	0.0			1233	-0.5	-1.5			1253	0.0	0.0			1345	-0.5	-1.5			1333	0.0	0.0	
						1915	2.5	7.6			1854	3.2	9.8			1917	2.8	8.5			2016	3.5	10.7			2004	3.0	9.1	
6 M	0032	-0.4	-1.2		21 Tu	0126	0.0	0.0		6 W	0113	-0.5	-1.5		21 Th	0138	0.1	0.3		6 Sa	0243	-0.3	-0.9		21 Su	0231	0.1	0.3	
	0649	2.9	8.8			0730	2.4	7.3			0715	2.8	8.5			0731	2.2	6.7			0836	2.5	7.6			0820	2.2	6.7	
	1304	-0.5	-1.5			1335	-0.1	-0.3			1321	-0.6	-1.8			1328	0.0	0.0			1434	-0.4	-1.2			1413	0.0	0.0	
	1915	2.9	8.8			1950	2.6	7.9			1944	3.4	10.4			1953	2.9	8.8			2105	3.4	10.4			2044	3.1	9.4	
7 Tu	0127	-0.6	-1.8		22 W	0204	-0.1	-0.3		7 Th	0206	-0.6	-1.8		22 F	0216	0.0	0.0		7 Su	0332	-0.3	-0.9		22 M	0312	0.0	0.0	
	0739	3.0	9.1			0804	2.4	7.3			0805	2.7	8.2			0808	2.2	6.7			0925	2.4	7.3			0901	2.2	6.7	
	1350	-0.7	-2.1			1406	-0.1	-0.3			1408	-0.7	-2.1			1403	0.0	0.0			1522	-0.3	-0.9			1454	-0.1	-0.3	
	2004	3.2	9.8			2023	2.7	8.2			2033	3.5	10.7			2029	2.9	8.8			2153	3.3	10.1			2126	3.1	9.4	
8 W	0219	-0.7	-2.1		23 Th	0240	-0.1	-0.3		8 F	0257	-0.6	-1.8		23 Sa	0254	0.0	0.0		8 M	0420	-0.2	-0.6		23 Tu	0354	0.0	0.0	
	0827	3.0	9.1			0838	2.3	7.0			0854	2.7	8.2			0845	2.2	6.7			1014	2.4	7.3			0944	2.3	7.0	
	1434	-0.8	-2.4			1437	-0.1	-0.3			1454	-0.6	-1.8			1438	0.0	0.0			1610	-0.2	-0.6			1538	-0.1	-0.3	
	2053	3.3	10.1			2057	2.8	8.5			2122	3.5	10.7			2106	3.0	9.1			2240	3.1	9.4			2209	3.1	9.4	
9 Th	0311	-0.7	-2.1		24 F	0316	-0.1	-0.3		9 Sa	0347	-0.5	-1.5		24 Su	0332	0.0	0.0		9 Tu	0509	0.0	0.0		24 W	0437	0.0	0.0	
	0914	2.8	8.5			0912	2.3	7.0			0943	2.5	7.6			0922	2.2	6.7			1104	2.3	7.0			1029	2.3	7.0	
	1519	-0.8	-2.4			1508	-0.1	-0.3			1542	-0.5	-1.5			1514	0.0	0.0			1700	0.0	0.0			1625	0.0	0.0	
	2141	3.4	10.4			2131	2.8	8.5			2211	3.3	10.1			2144	3.0	9.1			2329	2.9	8.8			2255	3.1	9.4	
10 F	0402	-0.6	-1.8		25 Sa	0352	0.0	0.0		10 Su	0438	-0.3	-0.9		25 M	0412	0.1	0.3		10 W	0558	0.1	0.3		25 Th	0523	0.0	0.0	
	1002	2.7	8.2			0945	2.2	6.7			1033	2.4	7.3			1001	2.1	6.4			1155	2.2	6.7			1119	2.3	7.0	
	1605	-0.7	-2.1			1540	-0.1	-0.3			1630	-0.3	-0.9			1553	0.0	0.0			1751	0.2	0.6			1716	0.0	0.0	
	2231	3.3	10.1			2205	2.8	8.5			2301	3.1	9.4			2225	2.9	8.8								2343	2.9	8.8	
11 Sa	0454	-0.5	-1.5		26 Su	0429	0.0	0.0		11 M	0530	-0.1	-0.3		26 Tu	0454	0.1	0.3		11 Th	0018	2.7	8.2		26 F	0611	0.0	0.0	
	1052	2.5	7.6			1020	2.1	6.4			1125	2.2	6.7			1043	2.1	6.4			0647	0.2	0.6			1214	2.4	7.3	
	1653	-0.5	-1.5			1614	0.0	0.0			1722	-0.1	-0.3			1636	0.1	0.3			1249	2.1	6.4			1814	0.1	0.3	
	2322	3.1	9.4			2243	2.7	8.2			2354	2.9	8.8			2309	2.9	8.8			1846	0.4	1.2						
12 Su	0549	-0.2	-0.6		27 M	0510	0.1	0.3		12 Tu	0625	0.1	0.3		27 W	0540	0.2	0.6		12 F	0109	2.5	7.6		27 Sa	0036	2.8	8.5	
	1144	2.2	6.7			1058	2.0	6.1			1221	2.1	6.4			1131	2.0	6.1			0737	0.3	0.9			0702	0.0	0.0	
	1744	-0.2	-0.6			1652	0.1	0.3			1817	0.1	0.3			1724	0.1	0.3			1346	2.1	6.4			1314	2.5	7.6	
						2325	2.6	7.9							2358	2.8	8.5			1945	0.5	1.5			1918	0.2	0.6		
13 M	0017																												

St. Georges Island, Bermuda, 2020

Times and Heights of High and Low Waters

July				August				September																					
Time	Height			Time	Height			Time	Height			Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 W	0442	2.4	73		16 Th	0444	2.0	61		1 Sa	0037	0.2	6		16 Su	0007	0.5	15		1 Tu	0150	0.2	6		16 W	0107	0.1	3	
	1049	-0.1	-3			1045	0.4	12			0628	2.4	73			0555	2.2	67			0748	2.7	82			0709	2.9	88	
	1724	3.1	94			1723	2.7	82			1227	0.0	0			1154	0.2	6			1351	0.1	3			1316	-0.1	-3	
	2351	0.1	3			2351	0.5	15			1901	3.2	98			1828	3.0	91			2011	3.1	94			1936	3.4	104	
2 Th	0542	2.4	73		17 F	0536	2.0	61		2 Su	0127	0.1	3		17 M	0054	0.3	9		2 W	0226	0.2	6		17 Th	0150	-0.1	-3	
	1144	-0.2	-6			1134	0.3	9			0719	2.4	73			0644	2.4	73			0826	2.8	85			0756	3.2	98	
	1820	3.2	98			1811	2.8	85			1318	0.0	0			1244	0.1	3			1431	0.1	3			1407	-0.3	-9	
3 F	0048	0.0	0		18 Sa	0039	0.4	12		3 M	0212	0.1	3		18 Tu	0138	0.1	3		3 Th	0300	0.2	6		18 F	0233	-0.2	-6	
	0639	2.4	73			0625	2.1	64			0805	2.5	76			0732	2.6	79			0903	2.8	85			0844	3.4	104	
	1238	-0.2	-6			1221	0.2	6			1405	-0.1	-3			1334	-0.1	-3			1509	0.1	3			1457	-0.3	-9	
	1912	3.3	101			1856	3.0	91			2032	3.2	98			2001	3.4	104			2122	3.0	91			2108	3.4	104	
4 Sa	0140	-0.1	-3		19 Su	0124	0.3	9		4 Tu	0254	0.1	3		19 W	0221	0.0	0		4 F	0332	0.2	6		19 Sa	0316	-0.3	-9	
	0731	2.4	73			0711	2.2	67			0849	2.6	79			0818	2.8	85			0938	2.8	85			0932	3.5	107	
	1329	-0.2	-6			1307	0.0	0			1449	0.0	0			1422	-0.2	-6			1547	0.2	6			1548	-0.3	-9	
	2002	3.4	104			1940	3.1	94			2113	3.1	94			2045	3.4	104			2156	2.8	85			2155	3.2	98	
5 Su	0229	-0.1	-3		20 M	0207	0.1	3		5 W	0333	0.1	3		20 Th	0303	-0.1	-3		5 Sa	0404	0.3	9		20 Su	0401	-0.3	-9	
	0821	2.5	76			0755	2.4	73			0930	2.6	79			0905	3.0	91			1013	2.8	85			1021	3.6	110	
	1418	-0.2	-6			1352	-0.1	-3			1531	0.0	0			1511	-0.3	-9			1624	0.3	9			1641	-0.2	-6	
	2049	3.3	101			2024	3.2	98			2152	3.0	91			2131	3.4	104			2230	2.7	82			2244	3.0	91	
6 M	0315	-0.1	-3		21 Tu	0249	0.0	0		6 Th	0409	0.1	3		21 F	0346	-0.2	-6		6 Su	0435	0.3	9		21 M	0449	-0.2	-6	
	0908	2.5	76			0840	2.5	76			1009	2.6	79			0953	3.1	94			1049	2.8	85			1113	3.5	107	
	1505	-0.2	-6			1438	-0.1	-3			1612	0.1	3			1602	-0.2	-6			1703	0.4	12			1737	0.0	0	
	2134	3.2	98			2107	3.3	101			2229	2.9	88			2217	3.3	101			2305	2.5	76			2336	2.8	85	
7 Tu	0359	0.0	0		22 W	0331	0.0	0		7 F	0445	0.2	6		22 Sa	0430	-0.2	-6		7 M	0508	0.4	12		22 Tu	0540	0.0	0	
	0953	2.4	73			0926	2.6	79			1049	2.6	79			1043	3.2	98			1127	2.7	82			1210	3.3	101	
	1551	-0.1	-3			1525	-0.2	-6			1653	0.3	9			1655	-0.1	-3			1745	0.6	18			1838	0.3	9	
	2218	3.1	94			2152	3.3	101			2306	2.7	82			2305	3.1	94			2342	2.3	70						
8 W	0442	0.1	3		23 Th	0414	-0.1	-3		8 Sa	0520	0.3	9		23 Su	0517	-0.1	-3		8 Tu	0544	0.5	15		23 W	0035	2.5	76	
	1038	2.4	73			1013	2.7	82			1129	2.5	76			1136	3.2	98			1209	2.6	79			0637	0.2	6	
	1637	0.1	3			1614	-0.1	-3			1735	0.4	12			1751	0.0	0			1831	0.7	21			1313	3.1	94	
	2301	2.9	88			2237	3.2	98			2344	2.5	76			2356	2.8	85						1945		0.4	12		
9 Th	0524	0.2	6		24 F	0459	-0.1	-3		9 Su	0556	0.4	12		24 M	0606	0.0	0		9 W	0024	2.2	67		24 Th	0141	2.3	70	
	1124	2.3	70			1103	2.7	82			1211	2.5	76			1232	3.1	94			0625	0.6	18			0743	0.4	12	
	1722	0.2	6			1707	-0.1	-3			1821	0.6	18			1853	0.2	6			1257	2.6	79			1422	3.0	91	
	2343	2.7	82			2325	3.0	91								1925	0.8	24			1925	0.8	24			2058	0.6	18	
10 F	0605	0.3	9		25 Sa	0545	-0.1	-3		10 M	0024	2.3	70		25 Tu	0053	2.6	79		10 Th	0114	2.1	64		25 F	0255	2.3	70	
	1210	2.3	70			1157	2.8	85			0634	0.5	15			0701	0.1	3			0715	0.7	21			0857	0.5	15	
	1810	0.4	12			1804	0.1	3			1257	2.5	76			1335	3.0	91			1355	2.5	76			1535	2.9	88	
											1912	0.7	21			2001	0.4	12			2029	0.9	27			2209	0.6	18	
11 Sa	0026	2.5	76		26 Su	0016	2.8	85		11 Tu	0108	2.2	67		26 W	0156	2.4	73		11 F	0216	2.0	61		26 Sa	0408	2.3	70	
	0647	0.4	12			0634	0.0	0			0717	0.6	18			0803	0.2	6			0816	0.7	21			1010	0.5	15	
	1259	2.3	70			1254	2.8	85			1348	2.4	73			1442	3.0	91			1501	2.6	79			1642	2.8	85	
	1902	0.5	15			1907	0.2	6			2009	0.8	24			2114	0.5	15			2137	0.8	24			2311	0.5	15	
12 Su	0111	2.3	70		27 M	0112	2.6	79		12 W	0200	2.0	61		27 Th	0307	2.3	70		12 Sa	0325	2.0	61		27 Su	0511	2.4	73	
	0730	0.4	12			0728	0.0	0			0806	0.6	18			0911	0.3	9			0925	0.7	21			1114	0.5	15	
	1350	2.3	70			1356	2.9	88			1445	2.5	76			1552	2.9	88			1607	2.7	82			1740	2.9	88	
	1959	0.7	21			2015	0.3	9			2113	0.8	24			2226	0.5	15			2240	0.7	21						
13 M	0200	2.2	67		28 Tu	0214	2.4	73		13 Th	0259	2.0	61		28 F	0418	2.2	67		13 Su	0430	2.2	67		28 M	0001	0.5	15	
	0816	0.5	15			0826	0.1	3			0903	0.6	18			1020	0.3	9			1030	0.5	15			0603	2.5	76	
	1444	2.3	70			1502	2.9	88			1546	2.5	76			1659	3.0	91			1706	2.9	88			1207	0.4	12	
	2100	0.7	21			2127	0.4	12			2217	0.8	24			2330	0.4	12			2334	0.5	15			1827	2.9	88	
14 Tu	0253	2.0	61		29 W	0320	2.3	70		14 F	0402	2.0	61		29 Sa	0523	2.3	70		14 M	0528	2.4	73		29 Tu	0043	0.4	12	
	0904	0.5	15			0928	0.1	3			1002	0.5	15			1124	0.3	9			1130	0.3	9			0646	2.7	82	
	1539																												

Settlement Point, Grand Bahama Island, 2020

Times and Heights of High and Low Waters

January					February					March																								
Time		Height			Time		Height			Time		Height			Time		Height																	
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 W	0551	0.3	9		16 Th	0605	-0.1	-3		1 Sa	0044	2.2	67		16 Su	0140	2.8	85		1 Su	0614	0.3	9		16 M	0115	2.9	88						
	1207	2.4	73			1216	2.8	85			0654	0.4	12			0801	0.1	3			1209	2.0	61			0742	0.1	3						
	1832	0.2	6			1838	-0.4	-12			1251	2.0	61			1357	2.2	67			1816	0.1	3			1338	2.2	67		1944	0.0	0		
2 Th	0044	2.1	64		17 F	0059	2.7	82		2 Su	0135	2.3	70		17 M	0245	2.8	85		2 M	0048	2.4	73		17 Tu	0221	2.7	82		17 Tu	0221	2.7	82	
	0644	0.4	12			0710	0.0	0			0751	0.4	12			0911	0.1	3			0709	0.4	12			0850	0.2	6			0850	0.2	6	
	1254	2.2	67			1315	2.6	79			1343	1.9	58			1503	2.1	64			1300	1.9	58			1446	2.1	64			1446	2.1	64		2050	0.1	3
3 F	0137	2.2	67		18 Sa	0203	2.8	85		3 M	0231	2.3	70		18 Tu	0349	2.7	82		3 Tu	0145	2.4	73		18 W	0326	2.6	79		18 W	0326	2.6	79	
	0741	0.4	12			0819	0.0	0			0852	0.4	12			1017	0.1	3			0810	0.4	12			0955	0.2	6			0955	0.2	6	
	1344	2.1	64			1417	2.4	73			1440	1.9	58			1609	2.1	64			1400	1.9	58			1552	2.1	64			1552	2.1	64		2155	0.1	3
4 Sa	0230	2.2	67		19 Su	0306	2.8	85		4 Tu	0327	2.5	76		19 W	0449	2.7	82		4 W	0246	2.5	76		19 Th	0427	2.6	79		19 Th	0427	2.6	79	
	0840	0.4	12			0927	0.1	3			0952	0.3	9			1116	0.1	3			0915	0.3	9			1053	0.2	6			1053	0.2	6	
	1436	2.0	61			1521	2.2	67			1539	1.9	58			1708	2.1	64			1504	2.0	61			1651	2.1	64			1651	2.1	64		2253	0.1	3
5 Su	0322	2.4	73		20 M	0408	2.9	88		5 W	0423	2.6	79		20 Th	0542	2.8	85		5 Th	0348	2.7	82		20 F	0519	2.7	82		20 F	0519	2.7	82	
	0938	0.4	12			1032	0.0	0			1050	0.2	6			1207	0.0	0			1016	0.2	6			1141	0.1	3			1141	0.1	3	
	1529	2.0	61			1623	2.2	67			1637	2.0	61			1801	2.2	67			1608	2.1	64			1741	2.3	70			1741	2.3	70		2343	0.1	3
6 M	0412	2.5	76		21 Tu	0505	2.9	88		6 Th	0517	2.9	88		21 F	0001	-0.1	-3		6 F	0447	2.9	88		21 Sa	0605	2.7	82		21 Sa	0605	2.7	82	
	1033	0.3	9			1131	-0.1	-3			1142	0.0	0			0629	2.8	85			1112	0.0	0			1223	0.1	3			1223	0.1	3	
	1621	2.0	61			1721	2.2	67			1732	2.2	67			1847	2.3	70			1708	2.4	73			1825	2.4	73			1825	2.4	73		2312	-0.3	-9
7 Tu	0500	2.7	82		22 W	0558	3.0	91		7 F	0608	3.1	94		22 Sa	0047	-0.2	-6		7 Sa	0541	3.1	94		22 Su	0028	0.0	0		22 Su	0028	0.0	0	
	1124	0.1	3			1224	-0.1	-3			1232	-0.2	-6			0711	2.9	88			1203	-0.2	-6			0645	2.7	82			0645	2.7	82	
	1712	2.1	64			1814	2.2	67			1825	2.4	73			1331	-0.1	-3			1803	2.6	79			1300	0.0	0			1300	0.0	0		1904	2.5	76
8 W	0547	2.9	88		23 Th	0014	-0.3	-9		8 Sa	0027	-0.5	-15		23 Su	0129	-0.2	-6		8 Su	0009	-0.4	-12		23 M	0109	0.0	0		23 M	0109	0.0	0	
	1212	0.0	0			0646	3.0	91			0657	3.3	101			0750	2.8	85			0633	3.3	101			0722	2.7	82			0722	2.7	82	
	1800	2.2	67			1311	-0.2	-6			1320	-0.4	-12			1408	-0.1	-3			1252	-0.4	-12			1334	-0.1	-3			1334	-0.1	-3		1940	2.6	79
9 Th	0000	-0.3	-9		24 F	0101	-0.3	-9		9 Su	0119	-0.6	-18		24 M	0208	-0.2	-6		9 M	0103	-0.6	-18		24 Tu	0147	-0.1	-3		24 Tu	0147	-0.1	-3	
	0633	3.1	94			0731	3.0	91			0745	3.4	104			0826	2.8	85			0723	3.4	104			0757	2.7	82			0757	2.7	82	
	1259	-0.2	-6			1355	-0.2	-6			1406	-0.5	-15			1442	-0.1	-3			1339	-0.6	-18			1407	-0.1	-3			1407	-0.1	-3		2016	2.7	82
10 F	0047	-0.4	-12		25 Sa	0146	-0.3	-9		10 M	0210	-0.6	-18		25 Tu	0247	-0.1	-3		10 Tu	0156	-0.7	-21		25 W	0225	-0.1	-3		25 W	0225	-0.1	-3	
	0719	3.2	98			0812	3.0	91			0833	3.4	104			0901	2.7	82			0812	3.4	104			0831	2.6	79			0831	2.6	79	
	1344	-0.3	-9			1435	-0.2	-6			1453	-0.6	-18			1516	-0.1	-3			1426	-0.7	-21			1439	-0.1	-3			1439	-0.1	-3		2050	2.7	82
11 Sa	0135	-0.5	-15		26 Su	0228	-0.3	-9		11 Tu	0303	-0.6	-18		26 W	0325	-0.1	-3		11 W	0249	-0.7	-21		26 Th	0302	0.0	0		26 Th	0302	0.0	0	
	0805	3.3	101			0852	2.9	88			0921	3.3	101			0936	2.6	79			0900	3.3	101			0905	2.5	76			0905	2.5	76	
	1430	-0.4	-12			1514	-0.2	-6			1540	-0.6	-18			1549	-0.1	-3			1513	-0.7	-21			1511	-0.1	-3			1511	-0.1	-3		2125	2.7	82
12 Su	0224	-0.5	-15		27 M	0309	-0.2	-6		12 W	0356	-0.6	-18		27 Th	0404	0.0	0		12 Th	0342	-0.6	-18		27 F	0339	0.0	0		27 F	0339	0.0	0	
	0852	3.3	101			0930	2.8	85			1011	3.2	98			1011	2.5	76			0950	3.1	94			0940	2.4	73			0940	2.4	73	
	1517	-0.4	-12			1551	-0.1	-3			1628	-0.6	-18			1622	0.0	0			1601	-0.7	-21			1543	0.0	0			1543	0.0	0	
13 M	0314	-0.5	-15		28 Tu	0349	-0.1	-3		13 Th	0452	-0.4	-12		28 F	0444	0.1	3		13 F	0437	-0.5	-15		28 Sa	0418	0.1	3		28 Sa	0418	0.1	3	
	0940	3.3	101			1007	2.7	82			1102	3.0	91			1047	2.3	70			1041	2.9	88			1015	2.3	70			1015	2.3	70	
	1604	-0.4	-12			1627	-0.1	-3			1718	-0.5	-15			1656	0.0	0			1651	-0.5	-15			1617	0.0	0			1617	0.0	0	
14 Tu	0408	-0.4	-12		29 W	0431	0.0	0		14 F	0551	-0.2	-6		29 Sa	0526	0.2	6		14 Sa	0535	-0.3	-9		29 Su	0459	0.2	6		29 Su	0459	0.2	6	
	1030	3.2	98			1045	2.5	76			1156	2.7	82			1125	2.2	67			1135	2.6	79			1054	2.1	64			1054	2.1	64	
	1653	-0.4	-12			1704	0.0	0			1810	-0.4	-12			1734	0.1	3			1744	-0.4	-12			1655	0.1	3			1655	0.1	3	
15 W	0504	-0.3	-9		30 Th	0515	0.2	6		15 Sa	0037	2.9	88		15 Su	0013	3.0	91		15 Su	0013													

Settlement Point, Grand Bahama Island, 2020

Times and Heights of High and Low Waters

April				May				June																					
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 W O	0109	2.6	79		16 Th	0255	2.6	79		1 F	0145	2.8	85		16 Sa	0310	2.4	73		1 M	0323	2.8	85		16 Tu	0400	2.2	67	
	0739	0.4	12			0924	0.3	9			0815	0.2	6			0934	0.2	6			0941	-0.2	-6			1010	0.2	6	
	1332	2.0	61			1528	2.1	64			1420	2.3	70			1548	2.3	70			1606	3.0	91			1639	2.6	79	
	1934	0.2	6			2130	0.3	9			2023	0.2	6			2153	0.4	12			2221	0.0	0			2255	0.4	12	
2 Th	0212	2.7	82		17 F	0354	2.5	76		2 Sa	0248	2.8	85		17 Su	0401	2.4	73		2 Tu	0423	2.8	85		17 W	0447	2.2	67	
	0842	0.3	9			1018	0.2	6			0914	0.0	0			1019	0.2	6			1035	-0.4	-12			1052	0.1	3	
	1439	2.1	64			1625	2.2	67			1525	2.5	76			1636	2.4	73			1703	3.2	98			1722	2.8	85	
	2042	0.1	3			2228	0.3	9			2131	0.1	3			2245	0.3	9			2321	-0.2	-6			2342	0.3	9	
3 F	0316	2.8	85		18 Sa	0445	2.5	76		3 Su	0349	2.9	88		18 M	0448	2.4	73		3 W	0519	2.8	85		18 Th	0532	2.2	67	
	0944	0.2	6			1105	0.2	6			1010	-0.1	-3			1059	0.1	3			1128	-0.5	-15			1134	0.0	0	
	1545	2.3	70			1713	2.4	73			1625	2.8	85			1719	2.6	79			1757	3.4	104			1804	2.9	88	
	2149	0.0	0			2318	0.2	6			2236	-0.1	-3			2332	0.2	6											
4 Sa	0417	2.9	88		19 Su	0530	2.5	76		4 M	0447	2.9	88		19 Tu	0531	2.4	73		4 Th	0618	-0.3	-9		19 F	0627	0.2	6	
	1041	0.0	0			1145	0.1	3			1103	-0.3	-9			1138	0.0	0			0614	2.7	82			0616	2.3	70	
	1646	2.6	79			1755	2.5	76			1722	3.1	94			1759	2.7	82			1219	-0.5	-15			1215	0.0	0	
	2253	-0.2	-6								2336	-0.3	-9								1849	3.5	107			1845	3.0	91	
5 Su	0514	3.1	94		20 M	0003	0.1	3		5 Tu	0542	3.0	91		20 W	0015	0.1	3		5 F	0112	-0.3	-9		20 Sa	0110	0.1	3	
	1133	-0.3	-9			0611	2.5	76			1154	-0.5	-15			0611	2.3	70			0707	2.7	82			0659	2.3	70	
	1742	2.9	88			1221	0.0	0			1815	3.4	104			1214	0.0	0			1309	-0.6	-18			1256	-0.1	-3	
	2352	-0.4	-12			1834	2.6	79								1838	2.8	85			1939	3.6	110			1927	3.1	94	
6 M	0608	3.2	98		21 Tu	0044	0.1	3		6 W	0032	-0.4	-12		21 Th	0056	0.1	3		6 Sa	0204	-0.4	-12		21 Su	0152	0.1	3	
	1223	-0.5	-15			0649	2.5	76			0635	3.0	91			0651	2.3	70			0759	2.6	79			0742	2.3	70	
	1835	3.2	98			1255	0.0	0			1243	-0.6	-18			1251	-0.1	-3			1359	-0.5	-15			1337	-0.1	-3	
						1910	2.8	85			1907	3.5	107			1915	2.9	88			2029	3.5	107			2008	3.2	98	
7 Tu	0047	-0.5	-15		22 W	0123	0.0	0		7 Th	0126	-0.5	-15		22 F	0136	0.0	0		7 Su	0255	-0.3	-9		22 M	0234	0.0	0	
	0659	3.3	101			0725	2.5	76			0727	2.9	88			0729	2.3	70			0850	2.6	79			0825	2.4	73	
	1311	-0.6	-18			1329	-0.1	-3			1332	-0.7	-21			1327	-0.1	-3			1448	-0.4	-12			1420	-0.1	-3	
	1926	3.4	104			1946	2.8	85			1957	3.6	110			1953	3.0	91			2118	3.4	104			2051	3.3	101	
8 W	0141	-0.6	-18		23 Th	0201	0.0	0		8 F	0219	-0.5	-15		23 Sa	0216	0.0	0		8 M	0345	-0.2	-6		23 Tu	0318	0.0	0	
	0749	3.2	98			0800	2.5	76			0818	2.8	85			0808	2.3	70			0941	2.5	76			0910	2.4	73	
	1358	-0.7	-21			1402	-0.1	-3			1421	-0.7	-21			1404	-0.1	-3			1538	-0.2	-6			1506	-0.1	-3	
	2017	3.6	110			2021	2.9	88			2047	3.6	110			2031	3.0	91			2207	3.2	98			2135	3.3	101	
9 Th	0234	-0.6	-18		24 F	0239	0.0	0		9 Sa	0311	-0.5	-15		24 Su	0256	0.0	0		9 Tu	0435	-0.1	-3		24 W	0402	0.0	0	
	0839	3.1	94			0836	2.4	73			0909	2.7	82			0847	2.3	70			1032	2.4	73			0958	2.5	76	
	1446	-0.7	-21			1435	-0.1	-3			1510	-0.5	-15			1442	-0.1	-3			1629	0.0	0			1554	0.0	0	
	2108	3.6	110			2057	2.9	88			2138	3.5	107			2111	3.0	91			2256	3.0	91			2222	3.2	98	
10 F	0327	-0.6	-18		25 Sa	0317	0.0	0		10 Su	0404	-0.4	-12		25 M	0338	0.0	0		10 W	0525	0.0	0		25 Th	0449	0.0	0	
	0929	2.9	88			0950	2.3	70			1001	2.6	79			0929	2.2	67			1125	2.3	70			1049	2.6	79	
	1534	-0.6	-18			1509	0.0	0			1601	-0.4	-12			1523	0.0	0			1721	0.2	6			1647	0.1	3	
	2159	3.5	107			2134	2.9	88			2230	3.3	101			2153	3.0	91			2346	2.8	85			2311	3.2	98	
11 Sa	0421	-0.4	-12		26 Su	0356	0.1	3		11 M	0458	-0.2	-6		26 Tu	0421	0.1	3		11 Th	0615	0.1	3		26 F	0538	0.0	0	
	1021	2.7	82			0950	2.2	73			1055	2.4	73			1013	2.2	67			1219	2.3	70			1144	2.6	79	
	1625	-0.5	-15			1546	0.0	0			1654	-0.2	-6			1607	0.0	0			1816	0.3	9			1745	0.2	6	
	2252	3.3	101			2213	2.8	85			2323	3.0	91			2239	3.0	91											
12 Su	0517	-0.2	-6		27 M	0438	0.1	3		12 Tu	0553	0.0	0		27 W	0508	0.1	3		12 F	0037	2.7	82		27 Sa	0004	3.0	91	
	1115	2.5	76			1031	2.1	64			1152	2.2	67			1103	2.2	67			0705	0.2	6			0630	0.0	0	
	1718	-0.3	-9			1626	0.1	3			1750	0.1	3			1658	0.1	3			1315	2.3	70			1244	2.7	82	
	2349	3.1	94			2257	2.8	85								2328	2.9	88			1913	0.5	15			1848	0.2	6	
13 M	0616	0.0	0		28 Tu	0525	0.2	6		13 W	0019	2.8	85		28 Th	0559	0.1	3		13 Sa	0128	2.5	76		28 Su	0100	2.9	88	
	1214	2.3	70			1117	2.1	64			0650	0.1	3			1159	2.3	70			0754	0.3	9			0724	0.0	0	
	1816	0.0	0			1713	0.2	6			1252	2.2	67			1755	0.2	6			1410	2.3	70			1345	2.9	88	
						2347	2.8	85			1850	0.2	6								2012	0.5	15			1954	0.3	9	
14 Tu	0048	2.8	85		29 W	0617	0.2	6		14 Th	0117	2.6	79		29 F	0023	2.9	88		14 Su	0220	2.4	73		29 M	0200	2.8	85	
	0719	0.1	3			1212	2.1	64																					

Settlement Point, Grand Bahama Island, 2020

Times and Heights of High and Low Waters

July				August				September																														
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																									
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm																								
1 W	0402	2.6	79		16 Th	0403	2.2	67		1 Sa	0546	2.7	82		16 Su	0513	2.6	79		1 Tu	0109	0.4	12		16 W	0025	0.2	6		17 Th	0111	0.1	3					
	1012	-0.2	-6			1008	0.3	9			1148	0.0	0			1114	0.3	9			0709	3.0	91			0630	3.4	104			0719	3.6	110					
	1646	3.3	101			1644	2.9	88			1821	3.5	107			1747	3.4	104			1311	0.3	9			1237	0.1	3			1329	0.0	0		1421	-0.1	-3	
	2309	0.1	3			2307	0.5	15			1909	3.5	107			1835	3.6	110			1931	3.4	104			1856	3.8	116			1943	3.8	116					
2 Th	0501	2.6	79		17 F	0454	2.3	70		2 Su	0046	0.2	6		17 M	0011	0.4	12		2 W	0148	0.4	12		17 Th	0111	0.1	3										
	1107	-0.3	-9			1055	0.2	6			0638	2.7	82			0604	2.8	85			0749	3.1	94			0719	3.6	110										
	1741	3.4	104			1731	3.0	91			1239	0.0	0			1205	0.2	6			1352	0.3	9			1329	0.0	0										
						2355	0.4	12			1909	3.5	107			1835	3.6	110			2009	3.4	104			1943	3.8	116										
3 F	0006	0.0	0		18 Sa	0543	2.4	73		3 M	0132	0.2	6		18 Tu	0057	0.3	9		3 Th	0224	0.4	12		18 F	0157	-0.1	-3										
	0558	2.6	79			1142	0.1	3			0726	2.8	85			0653	3.0	91			0827	3.1	94			0809	3.8	116										
	1200	-0.3	-9			1816	3.2	98			1326	0.1	3			1256	0.1	3			1432	0.4	12			1421	-0.1	-3										
	1834	3.5	107								1953	3.5	107			1921	3.7	113			2045	3.3	101			2031	3.8	116										
4 Sa	0059	-0.1	-3		19 Su	0041	0.3	9		4 Tu	0215	0.2	6		19 W	0142	0.1	3		4 F	0258	0.4	12		19 Sa	0243	-0.1	-3										
	0651	2.6	79			0630	2.5	76			0812	2.8	85			0742	3.2	98			0905	3.1	94			0859	3.9	119										
	1252	-0.3	-9			1229	0.0	0			1411	0.1	3			1346	0.0	0			1511	0.5	15			1514	-0.1	-3										
	1924	3.5	107			1901	3.4	104			2035	3.4	104			2008	3.8	116			2121	3.2	98			2120	3.6	110										
5 Su	0149	-0.1	-3		20 M	0126	0.2	6		5 W	0256	0.2	6		20 Th	0226	0.0	0		5 Sa	0332	0.4	12		20 Su	0330	-0.1	-3										
	0742	2.6	79			0717	2.6	79			0855	2.8	85			0830	3.4	104			0942	3.1	94			0950	3.9	119										
	1341	-0.2	-6			1315	0.0	0			1454	0.2	6			1436	0.0	0			1550	0.5	15			1608	0.0	0										
	2012	3.5	107			1946	3.5	107			2115	3.3	101			2054	3.8	116			2157	3.0	91			2211	3.4	104										
6 M	0237	-0.1	-3		21 Tu	0210	0.1	3		6 Th	0335	0.3	9		21 F	0311	0.0	0		6 Su	0406	0.5	15		21 M	0420	0.0	0										
	0831	2.6	79			0803	2.7	82			0936	2.8	85			0920	3.5	107			1020	3.1	94			1044	3.8	116										
	1429	-0.1	-3			1402	-0.1	-3			1537	0.3	9			1529	0.0	0			1631	0.6	18			1705	0.2	6										
	2058	3.4	104			2030	3.6	110			2154	3.2	98			2142	3.7	113			2233	2.8	85			2305	3.2	98										
7 Tu	0323	0.0	0		22 W	0254	0.0	0		7 F	0413	0.3	9		22 Sa	0358	-0.1	-3		7 M	0441	0.6	18		22 Tu	0513	0.1	3										
	0919	2.6	79			0851	2.9	88			1018	2.8	85			1012	3.6	110			1100	3.0	91			1142	3.7	113										
	1516	0.0	0			1451	-0.1	-3			1619	0.5	15			1623	0.1	3			1714	0.8	24			1806	0.4	12										
	2143	3.3	101			2116	3.6	110			2233	3.0	91			2232	3.5	107			2313	2.7	82															
8 W	0408	0.1	3		23 Th	0339	0.0	0		8 Sa	0450	0.4	12		23 Su	0446	0.0	0		8 Tu	0519	0.7	21		23 W	0004	2.9	88										
	1006	2.6	79			0940	3.0	91			1100	2.8	85			1106	3.6	110			1143	2.9	88			0611	0.3	9										
	1603	0.1	3			1542	0.0	0			1703	0.6	18			1720	0.2	6			1801	0.9	27			1244	3.5	107										
	2226	3.1	94			2203	3.5	107			2312	2.8	85			2325	3.3	101			2356	2.5	76			1912	0.5	15										
9 Th	0451	0.2	6		24 F	0425	0.0	0		9 Su	0528	0.5	15		24 M	0538	0.1	3		9 W	0601	0.7	21		24 Th	0109	2.8	85										
	1053	2.5	76			1032	3.1	94			1143	2.8	85			1204	3.5	107			1232	2.9	88			0714	0.4	12										
	1650	0.3	9			1636	0.1	3			1750	0.7	21			1821	0.4	12			1855	0.9	27			1350	3.4	104										
	2310	2.9	88			2252	3.4	104			2354	2.7	82											2020		0.6	18											
10 F	0534	0.3	9		25 Sa	0513	0.0	0		10 M	0608	0.6	18		25 Tu	0022	3.0	91		10 Th	0047	2.4	73		25 F	0218	2.7	82										
	1141	2.5	76			1127	3.1	94			1230	2.7	82			0634	0.2	6			0651	0.8	24			0822	0.5	15										
	1739	0.5	15			1733	0.2	6			1841	0.8	24			1305	3.4	104			1328	2.9	88			1457	3.3	101										
	2354	2.7	82			2345	3.2	98								1927	0.5	15			1954	1.0	30			2127	0.7	21										
11 Sa	0617	0.3	9		26 Su	0604	0.0	0		11 Tu	0039	2.5	76		26 W	0124	2.8	85		11 F	0145	2.4	73		26 Sa	0326	2.7	82										
	1230	2.5	76			1225	3.2	98			0651	0.6	18			0734	0.3	9			0748	0.8	24			0929	0.6	18										
	1831	0.6	18			1835	0.3	9			1320	2.7	82			1410	3.4	104			1427	3.0	91			1600	3.2	98										
											1937	0.9	27			2036	0.6	18			2056	0.9	27			2227	0.6	18										
12 Su	0040	2.6	79		27 M	0040	3.0	91		12 W	0129	2.4	73		27 Th	0230	2.7	82		12 Sa	0247	2.5	76		27 Su	0428	2.8	85										
	0701	0.4	12			0658	0.0	0			0740	0.6	18			0838	0.4	12			0850	0.7	21			1030	0.6	18										
	1320	2.5	76			1326	3.2	98			1414	2.8	85			1516	3.3	101			1527	3.1	94			1655	3.2	98										
	1926	0.7	21			1941	0.4	12			2036	0.9	27			2144	0.6	18			2155	0.8	24			2318	0.6	18										
13 M	0128	2.4	73		28 Tu	0141	2.8	85		13 Th	0225	2.3	70		28 F	0337	2.7	82		13 Su	0348	2.6	79		28 M	0520	2.9	88										
	0746	0.4	12			0756	0.1	3			0832	0.6	18			0942	0.4	12			0951	0.6	18			1123	0.5	15										
	1412	2.5	76			1429	3.2	98			1510	2.9	88			1618	3.4	104			1624	3.3	101			1743	3.3	101										
	2023	0.7	21			2049	0.4	12			2135	0.8	24			2246	0.6	18			2249	0.6	18															
14 Tu	0219	2.3	70		29 W	0244	2.7	82		14 F																												

Settlement Point, Grand Bahama Island, 2020

Times and Heights of High and Low Waters

October				November				December																					
Time	Height			Time	Height			Time	Height			Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm										
1 Th	0115	0.4	12		16 F	0041	-0.2	-6		1 Su	0145	0.2	6		16 M	0151	-0.5	-15		1 Tu	0149	0.0	0		16 W	0224	-0.6	-18	
	0723	3.2	98			0657	3.8	116			0805	3.2	98			0819	3.9	119			0816	3.1	94			0854	3.5	107	
	1331	0.4	12			1313	-0.2	-6			1424	0.3	9			1444	-0.3	-9			1441	0.1	3			1520	-0.4	-12	
	1939	3.2	98			1919	3.6	110			2019	2.7	82			2040	3.0	91			2031	2.3	70			2116	2.6	79	
2 F	0148	0.4	12		17 Sa	0128	-0.3	-9		2 M	0218	0.2	6		17 Tu	0242	-0.5	-15		2 W	0226	0.0	0		17 Th	0315	-0.4	-12	
	0759	3.2	98			0748	4.0	122			0840	3.2	98			0911	3.8	116			0854	3.1	94			0944	3.4	104	
	1409	0.4	12			1406	-0.2	-6			1502	0.3	9			1537	-0.3	-9			1521	0.1	3			1611	-0.3	-9	
	2014	3.1	94			2009	3.5	107			2055	2.6	79			2133	2.8	85			2111	2.3	70			2208	2.5	76	
3 Sa	0220	0.4	12		18 Su	0215	-0.3	-9		3 Tu	0252	0.3	9		18 W	0334	-0.3	-9		3 Th	0304	0.1	3		18 F	0407	-0.2	-6	
	0834	3.3	101			0838	4.0	122			0917	3.1	94			1004	3.6	110			0934	3.0	91			1034	3.1	94	
	1447	0.4	12			1459	-0.2	-6			1540	0.4	12			1631	-0.1	-3			1602	0.1	3			1702	-0.2	-6	
	2049	3.0	91			2059	3.4	104			2133	2.5	76			2228	2.7	82			2153	2.2	67			2302	2.4	73	
4 Su	0253	0.4	12		19 M	0304	-0.3	-9		4 W	0328	0.3	9		19 Th	0428	-0.1	-3		4 F	0346	0.1	3		19 Sa	0500	0.0	0	
	0909	3.2	98			0930	4.0	122			0955	3.1	94			1058	3.4	104			1016	3.0	91			1124	2.9	88	
	1524	0.5	15			1553	-0.1	-3			1621	0.4	12			1728	0.0	0			1645	0.2	6			1753	0.0	0	
	2124	2.8	85			2151	3.2	98			2212	2.4	73			2326	2.5	76			2239	2.2	67			2357	2.3	70	
5 M	0326	0.5	15		20 Tu	0355	-0.1	-3		5 Th	0407	0.4	12		20 F	0525	0.1	3		5 Sa	0432	0.2	6		20 Su	0555	0.2	6	
	0945	3.2	98			1023	3.8	116			1037	3.0	91			1155	3.1	94			1102	2.9	88			1216	2.7	82	
	1603	0.6	18			1649	0.1	3			1706	0.5	15			1826	0.2	6			1732	0.2	6			1844	0.1	3	
	2200	2.7	82			2247	3.0	91			2257	2.3	70								2331	2.3	70						
6 Tu	0400	0.5	15		21 W	0449	0.0	0		6 F	0451	0.5	15		21 Sa	0028	2.4	73		6 Su	0526	0.3	9		21 M	0054	2.3	70	
	1023	3.1	94			1120	3.6	110			1124	3.0	91			0627	0.3	9			1153	2.9	88			0654	0.3	9	
	1644	0.7	21			1748	0.2	6			1755	0.6	18			1253	2.9	88			1823	0.2	6			1308	2.5	76	
	2239	2.6	79			2346	2.8	85			2349	2.3	70			1925	0.3	9								1934	0.1	3	
7 W	0438	0.6	18		22 Th	0548	0.3	9		7 Sa	0544	0.6	18		22 Su	0132	2.4	73		7 M	0028	2.3	70		22 Tu	0151	2.3	70	
	1105	3.0	91			1221	3.4	104			1217	2.9	88			0732	0.5	15			0626	0.3	9			0754	0.4	12	
	1730	0.8	24			1852	0.4	12			1850	0.6	18			1353	2.7	82			1248	2.8	85			1401	2.3	70	
	2322	2.5	76												2022	0.3	9			1917	0.1	3			2023	0.2	6		
8 Th	0520	0.7	21		23 F	0052	2.6	79		8 Su	0049	2.3	70		23 M	0235	2.4	73		8 Tu	0130	2.5	76		23 W	0247	2.3	70	
	1153	3.0	91			0653	0.4	12			0646	0.6	18			0837	0.5	15			0733	0.3	9			0855	0.4	12	
	1821	0.8	24			1325	3.2	98			1316	2.9	88			1451	2.6	79			1348	2.7	82			1454	2.2	67	
						1957	0.5	15			1948	0.5	15			2115	0.3	9			2012	0.0	0			2111	0.1	3	
9 F	0013	2.4	73		24 Sa	0200	2.6	79		9 M	0153	2.5	76		24 Tu	0332	2.5	76		9 W	0233	2.7	82		24 Th	0338	2.4	73	
	0612	0.8	24			0801	0.6	18			0753	0.5	15			0937	0.5	15			0842	0.2	6			0952	0.4	12	
	1248	3.0	91			1430	3.0	91			1418	3.0	91			1544	2.5	76			1449	2.7	82			1546	2.1	64	
	1920	0.9	27			2100	0.5	15			2045	0.4	12			2202	0.3	9			2108	-0.1	-3			2156	0.1	3	
10 Sa	0113	2.4	73		25 Su	0307	2.6	79		10 Tu	0257	2.7	82		25 W	0422	2.6	79		10 Th	0334	2.9	88		25 F	0426	2.5	76	
	0712	0.8	24			0908	0.6	18			0902	0.4	12			1031	0.5	15			0948	0.1	3			1044	0.3	9	
	1349	3.0	91			1531	3.0	91			1518	3.0	91			1632	2.5	76			1549	2.7	82			1634	2.1	64	
	2021	0.8	24			2157	0.5	15			2140	0.2	6			2244	0.2	6			2203	-0.3	-9			2240	0.0	0	
11 Su	0218	2.5	76		26 M	0406	2.7	82		11 W	0356	3.0	91		26 Th	0506	2.7	82		11 F	0432	3.2	98		26 Sa	0511	2.6	79	
	0819	0.7	21			1009	0.6	18			1006	0.2	6			1119	0.4	12			1051	-0.1	-3			1132	0.2	6	
	1451	3.1	94			1625	2.9	88			1617	3.1	94			1716	2.4	73			1648	2.7	82			1721	2.1	64	
	2120	0.7	21			2245	0.5	15			2233	0.0	0			2323	0.1	3			2257	-0.5	-15			2322	0.0	0	
12 M	0322	2.7	82		27 Tu	0456	2.8	85		12 Th	0453	3.3	101		27 F	0547	2.8	85		12 Sa	0527	3.4	104		27 Su	0553	2.7	82	
	0925	0.6	18			1102	0.5	15			1107	0.0	0			1203	0.3	9			1149	-0.2	-6			1216	0.1	3	
	1551	3.2	98			1712	2.9	88			1712	3.1	94			1757	2.4	73			1744	2.7	82			1805	2.1	64	
	2215	0.5	15			2327	0.4	12			2323	-0.2	-6								2350	-0.6	-18						
13 Tu	0420	3.0	91		28 W	0539	2.9	88		13 F	0546	3.6	110		28 Sa	0000	0.1	3		13 Su	0621	3.5	107		28 M	0003	-0.1	-3	
	1027	0.4	12			1148	0.5	15</																					

Pages 244 through 259 intentionally omitted

Magueyes Island, Puerto Rico, 2020

Times and Heights of High and Low Waters

January				February				March																				
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height															
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm														
1 W	0222	0.1	3		16 Th	0136	0.1	3		1 Sa	0829	0.4	12		16 Su	0656	0.5	15		1 Su	0623	0.4	12		16 M	0544	0.5	15
	1238	0.5	15			1122	0.5	15			1946	0.0	0			1821	-0.1	-3			1707	-0.1	-3			1635	-0.2	-6
						2256	0.2	6																				
2 Th	0217	0.1	3		17 F	1007	0.5	15		2 Su	0807	0.5	15		17 M	0728	0.5	15		2 M	0633	0.4	12		17 Tu	0633	0.5	15
	1229	0.5	15			2143	0.1	3			2000	-0.1	-3			1913	-0.2	-6			1745	-0.2	-6			1721	-0.2	-6
	2325	0.2	6																									
3 F	1110	0.5	15		18 Sa	0822	0.5	15		3 M	0806	0.5	15		18 Tu	0804	0.5	15		3 Tu	0657	0.5	15		18 W	0719	0.4	12
	2232	0.1	3			2138	0.0	0			2035	-0.1	-3			2055	-0.2	-6			1838	-0.2	-6			1817	-0.2	-6
4 Sa	0927	0.5	15		19 Su	0820	0.6	18		4 Tu	0818	0.6	18		19 W	0839	0.5	15		4 W	0729	0.5	15		19 Th	0758	0.4	12
	2214	0.1	3			2149	-0.1	-3			2123	-0.2	-6			2231	-0.2	-6			1954	-0.2	-6			1956	-0.1	-3
5 Su	0906	0.6	18		20 M	0840	0.7	21		5 W	0841	0.6	18		20 Th	0912	0.5	15		5 Th	0803	0.6	18		20 F	0827	0.4	12
	2213	0.0	0			2214	-0.2	-6			2216	-0.3	-9			2334	-0.2	-6			2125	-0.2	-6			2343	-0.1	-3
6 M	0903	0.6	18		21 Tu	0907	0.7	21		6 Th	0910	0.6	18		21 F	0937	0.5	15		6 F	0838	0.6	18		21 Sa	0837	0.4	12
	2229	-0.1	-3			2248	-0.2	-6			2305	-0.3	-9															
7 Tu	0911	0.7	21		22 W	0935	0.7	21		7 F	0944	0.7	21		22 Sa	0015	-0.2	-6		7 Sa	0910	0.6	18		22 Su	0040	0.0	0
	2254	-0.2	-6			2325	-0.3	-9			2349	-0.3	-9			0949	0.5	15			2343	-0.2	-6			0826	0.3	9
																										1606	0.0	0
																										1808	0.1	3
8 W	0932	0.7	21		23 Th	1003	0.6	18		8 Sa	1019	0.7	21		23 Su	0039	-0.1	-3		8 Su	0937	0.6	18		23 M	0123	0.0	0
	2325	-0.2	-6			2357	-0.3	-9								0945	0.4	12								0816	0.3	9
																										1529	0.1	3
																										1929	0.2	6
9 Th	1003	0.7	21		24 F	1028	0.6	18		9 Su	0028	-0.2	-6		24 M	0053	-0.1	-3		9 M	0036	-0.1	-3		24 Tu	0200	0.1	3
	2358	-0.3	-9								1053	0.7	21			0941	0.4	12			0951	0.5	15			0811	0.3	9
																										1454	0.1	3
																										2031	0.3	9
10 F	1041	0.8	24		25 Sa	0024	-0.2	-6		10 M	0100	-0.2	-6		25 Tu	0107	0.0	0		10 Tu	0125	0.0	0		25 W	0249	0.1	3
						1044	0.6	18			1118	0.6	18			0942	0.4	12			0934	0.4	12			0801	0.2	6
																1753	0.1	3			1709	0.1	3			1413	0.0	0
																1954	0.2	6			1958	0.2	6			2129	0.3	9
11 Sa	0029	-0.3	-9		26 Su	0047	-0.2	-6		11 Tu	0123	-0.1	-3		26 W	0125	0.1	3		11 W	0216	0.1	3		26 Th	1409	0.0	0
	1123	0.8	24			1051	0.5	15			1115	0.5	15			0942	0.3	9			0852	0.3	9			2231	0.3	9
																1711	0.1	3			1622	0.2	6					
																2127	0.2	6			2150	0.3	9					
12 Su	0059	-0.3	-9		27 M	0109	-0.1	-3		12 W	0131	0.0	0		27 Th	0143	0.1	3		12 Th	0428	0.2	6		27 F	1423	-0.1	-3
	1206	0.7	21			1058	0.5	15			1034	0.4	12			0927	0.3	9			0752	0.3	9			2343	0.3	9
																1618	0.1	3			1510	0.1	3					
																2301	0.2	6										
13 M	0124	-0.2	-6		28 Tu	0130	-0.1	-3		13 Th	0114	0.2	6		28 F	0153	0.1	3		13 F	0310	0.3	9		28 Sa	1445	-0.2	-6
	1243	0.7	21			1105	0.5	15			0949	0.4	12			0757	0.3	9			1454	-0.1	-3					
											1918	0.2	6			1618	0.0	0										
14 Tu	0142	-0.1	-3		29 W	0148	0.0	0		14 F	0803	0.4	12		29 Sa	0630	0.3	9		14 Sa	0404	0.4	12		29 Su	0131	0.4	12
	1255	0.6	18			1110	0.4	12			1857																	

Magueyes Island, Puerto Rico, 2020

Times and Heights of High and Low Waters

April					May					June																			
Time		Height			Time		Height			Time		Height			Time		Height												
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm										
1 W	0544	0.5	15	-6	16 Th	0610	0.4	12	-3	1 F	0518	0.6	18	-3	16 Sa	0350	0.4	12	3	1 M	0111	0.5	15	3	16 Tu	1057	0.0	0	18
2 Th	0631	0.5	15	-6	17 F	0639	0.4	12	0	2 Sa	0553	0.5	15	0	17 Su	0347	0.4	12	3	2 Tu	1152	0.0	0	18	17 W	1053	0.0	0	21
3 F	0712	0.5	15	-3	18 Sa	0644	0.3	9	0	3 Su	0607	0.5	15	3	18 M	1227	0.1	3	12	3 W	1139	-0.1	-3	21	18 Th	1102	-0.1	-3	21
4 Sa	0745	0.5	15	0	19 Su	0633	0.3	9	3	4 M	0535	0.4	12	3	19 Tu	1208	0.0	0	15	4 Th	1135	-0.2	-6	24	19 F	1121	-0.2	-6	24
5 Su	0808	0.5	15	3	20 M	0137	0.1	3	9	5 Tu	1308	0.1	3	15	20 W	1156	-0.1	-3	18	5 F	1145	-0.2	-6	24	20 Sa	1145	-0.2	-6	24
6 M	0810	0.4	12	3	21 Tu	0624	0.3	9	6	6 W	1243	0.0	0	18	21 Th	1159	-0.2	-6	18	6 Sa	1205	-0.3	-9	24	21 Su	1211	-0.2	-6	24
7 Tu	0141	0.1	3	9	22 W	0313	0.1	3	0	7 Th	1226	-0.2	-6	18	22 F	1213	-0.2	-6	18	7 Su	1232	-0.3	-9	24	22 M	1238	-0.2	-6	24
8 W	0351	0.1	3	6	23 Th	0611	0.2	6	0	8 F	1233	-0.3	-9	18	23 Sa	1233	-0.3	-9	21	8 M	0003	0.7	21	-9	23 Tu	1305	-0.2	-6	-3
9 Th	0632	0.2	6	0	24 F	1256	-0.1	-3	15	9 Sa	1230	0.6	18	-9	24 Su	1232	0.6	18	-9	9 Tu	0041	0.7	21	-6	24 W	0041	0.8	24	-3
10 F	1400	0.0	0	12	25 Sa	1310	-0.2	-6	15	10 Su	1254	-0.3	-9	-9	25 M	0000	0.7	21	-9	10 W	0111	0.6	18	-3	25 Th	0116	0.8	24	0
11 Sa	2207	0.4	12	15	26 Su	1329	-0.3	-9	15	11 M	0022	0.6	18	-9	26 Tu	0000	0.7	21	-9	11 Th	0128	0.6	18	0	26 F	0133	0.8	24	3
12 Su	0052	0.5	15	-9	27 M	1354	-0.3	-9	-9	12 Tu	0119	0.6	18	-9	27 W	0055	0.7	21	-9	12 F	0142	0.0	0	18	27 Sa	0134	0.1	3	6
13 M	1355	-0.3	-9	-9	28 Tu	0104	0.5	15	-9	13 W	01354	-0.3	-9	-9	28 Th	0150	0.7	21	-6	13 Sa	0135	0.6	18	3	28 Su	0114	0.7	21	6
14 Tu	0220	0.5	15	-9	29 W	0222	0.5	15	-9	14 Th	0216	0.6	18	-9	29 F	0150	0.7	21	-6	14 Su	0137	0.5	15	6	29 M	0030	0.6	18	6
15 W	0427	-0.3	-9	-9	30 Th	0222	0.5	15	-9	15 F	0216	0.6	18	-9	30 Sa	0237	0.7	21	-3	15 M	0124	0.5	15	6	30 Tu	1154	0.2	6	18
16 Th	0330	0.5	15	-9	31 F	0222	0.5	15	-9	16 Sa	0304	0.5	15	-6	31 Su	1441	-0.1	-3	18	16 Tu	1317	0.2	6	18	31 W	1154	0.2	6	18
17 F	0431	0.5	15	-9	1 M	0333	0.5	15	-6	1 Tu	0337	0.5	15	-3	1 W	0311	0.6	18	0	1 Th	0124	0.5	15	6	1 F	1049	0.2	6	21
18 Sa	1539	-0.3	-9	-9	2 Tu	1525	-0.2	-6	-6	2 W	1521	-0.1	-3	0	2 Th	0311	0.6	18	0	2 Su	1132	0.2	6	15	2 M	2122	0.7	21	21
19 Su	0525	0.4	12	-6	3 W	0431	0.6	18	0	3 Th	0349	0.4	12	0	3 F	0320	0.6	18	3	3 Sa	2237	0.5	15	15	3 Su	1033	0.1	3	24
20 M	1616	-0.2	-6	-6	4 Th	1554	-0.2	-6	-6	4 F	1524	0.0	0	0	4 Sa	1438	0.1	3	3	4 M	1110	0.1	3	18	4 Tu	2103	0.8	24	24
21 Tu					5 F					5 Sa					5 Su					5 M					5 Tu				
22 W					6 Sa					6 Su					6 M					6 Tu					6 W				
23 Th					7 M					7 Tu					7 W					7 Th					7 F				
24 F					8 Tu					8 W					8 Th					8 Su					8 M				
25 Sa					9 W					9 Th					9 F					9 Sa					9 Su				
26 Su					10 Th					10 F					10 Sa					10 M					10 Tu				
27 M					11 F					11 Sa					11 Su					11 M					11 Tu				
28 Tu					12 M					12 W					12 Th					12 Tu					12 W				
29 W					13 Tu					13 W					13 Th					13 F					13 Sa				
30 Th					14 W					14 Th					14 F					14 Sa					14 Su				
31 F					15 Th					15 F					15 Sa					15 M					15 Tu				
					16 M					16 Tu					16 W					16 Th					16 F				
					17 Tu					17 W					17 Th					17 F					17 Sa				
					18 W					18 Th					18 F					18 Sa					18 Su				
					19 Th					19 F					19 Sa					19 M					19 Tu				
					20 F					20 Sa					20 Su					20 M					20 Tu				
					21 Sa					21 Su					21 M					21 Tu					21 W				
					22 Su					22 M					22 Tu					22 W					22 Th				
					23 M					23 Tu					23 W					23 Th					23 F				
					24 Tu					24 W					24 Th					24 F					24 Sa				
					25 W					25 Th					25 F					25 Sa					25 Su				
					26 Th					26 F					26 Sa					26 M					26 Tu				
					27 F					27 Sa					27 Su					27 M					27 Tu				
					28 Sa					28 Su					28 M					28 Tu					28 W				
					29 Su					29 M					29 Tu					29 W					29 Th				
					30 M					30 Tu					30 W					30 Th					30 F				
					31 Tu					31 W					31 Th					31 F					31 Sa				

Magueyes Island, Puerto Rico, 2020

Times and Heights of High and Low Waters

July				August				September															
Time		Height		Time		Height		Time		Height		Time		Height									
h	m	ft	cm	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm								
1	1032	0.0	0	16	0953	0.0	0	1	1043	-0.1	-3	16	1030	0.0	0	1	1158	0.2	6	16	1149	0.3	9
W	2116	0.8	24	Th	2103	0.8	24	Sa	2154	0.9	27	Su	2125	0.9	27	Tu	2135	0.8	24	W	2118	0.8	24
2	1041	-0.1	-3	17	1021	-0.1	-3	2	1120	-0.1	-3	17	1113	0.0	0	2	1214	0.3	9	17	1237	0.4	12
Th	2139	0.9	27	F	2122	0.8	24	Su	2224	0.9	27	M	2157	0.9	27	W	2121	0.7	21	Th	2102	0.7	21
3	1059	-0.2	-6	18	1054	-0.1	-3	3	1151	0.0	0	18	1151	0.1	3	3	1230	0.4	12	18	0458	0.5	15
F	2208	0.9	27	Sa	2150	0.9	27	M	2245	0.8	24	Tu	2227	0.9	27	Th	2116	0.7	21	F	0805	0.6	18
4	1124	-0.2	-6	19	1127	-0.1	-3	4	1216	0.0	0	19	1223	0.1	3	4	0531	0.4	12	19	1322	0.5	15
Sa	2240	0.8	24	Su	2224	0.9	27	Tu	2250	0.8	24	W	2248	0.9	27	F	0802	0.5	15	Sa	2019	0.7	21
5	1153	-0.2	-6	20	1159	-0.1	-3	5	1238	0.1	3	20	1244	0.2	6	5	0501	0.4	12	20	0410	0.5	15
Su	2312	0.8	24	M	2301	0.9	27	W	2245	0.8	24	Th	2245	0.8	24	Sa	0938	0.5	15	Su	1015	0.6	18
○				●				6	1258	0.2	6	21	1250	0.4	12	6	1304	0.4	12	21	1639	0.5	15
6	1221	-0.2	-6	21	1228	-0.1	-3	6	2245	0.7	21	21	2210	0.7	21	6	2053	0.6	18	21	1856	0.6	18
M	2340	0.8	24	Tu	2337	0.9	27	Th	1314	0.3	9	22	1219	0.5	15	6	0413	0.4	12	21	0318	0.4	12
7	1248	-0.1	-3	22	1252	0.0	0	7	2246	0.7	21	22	2122	0.7	21	7	1736	0.7	21	21	1450	0.7	21
Tu	2357	0.7	21	W				8	1319	0.4	12	23	0657	0.4	12	7	0405	0.3	9	22	0249	0.3	9
8	1314	0.0	0	23	0006	0.9	27	8	2236	0.6	18	23	1902	0.7	21	8	1736	0.7	21	22	1536	0.8	24
W				Th	1309	0.1	3	9	0756	0.4	12	24	0641	0.3	9	8	0426	0.2	6	23	0309	0.2	6
9	0004	0.7	21	24	0014	0.8	24	9	2132	0.6	18	24	1800	0.8	24	9	1742	0.7	21	23	1624	0.8	24
Th	1335	0.1	3	F	1313	0.2	6	10	0737	0.3	9	25	0631	0.2	6	9	0459	0.2	6	24	0344	0.1	3
10	0008	0.7	21	25	1249	0.3	9	10	1945	0.7	21	25	1822	0.8	24	9	1800	0.7	21	24	1713	0.9	27
F	1348	0.2	6	Sa	2301	0.7	21	11	0727	0.2	6	26	0634	0.1	3	10	0539	0.1	3	25	0427	0.1	3
11	0009	0.6	18	26	0947	0.3	9	11	1936	0.7	21	26	1858	0.9	27	10	1828	0.8	24	25	1804	0.9	27
Sa	1327	0.3	9	Su	2155	0.7	21	12	0739	0.2	6	27	0711	0.1	3	11	0630	0.1	3	26	0515	0.1	3
12	1003	0.3	9	27	0905	0.3	9	12	1944	0.8	24	27	1937	0.9	27	11	1902	0.8	24	26	1852	0.8	24
Su	2244	0.6	18	M	2004	0.7	21	13	0810	0.1	3	28	0815	0.1	3	11	0630	0.1	3	26	0610	0.1	3
●				●				13	2000	0.8	24	29	2017	0.9	27	12	0734	0.1	3	27	1934	0.8	24
13	0942	0.2	6	28	0859	0.2	6	14	0853	0.0	0	30	0846	0.1	3	12	1937	0.9	27	27	0723	0.2	6
M	2102	0.6	18	Tu	1958	0.8	24	15	2024	0.9	27	31	2011	0.9	27	13	0846	0.1	3	28	2006	0.8	24
14	0932	0.1	3	29	0907	0.1	3	16	0941	0.0	0	31	0955	0.2	6	13	2011	0.9	27	28	1035	0.3	9
Tu	2050	0.7	21	W	2019	0.9	27	17	2053	0.9	27	31	2042	0.9	27	14	0955	0.2	6	29	2020	0.7	21
15	0935	0.1	3	30	0929	0.0	0	18	1040	0.1	3	31	2106	0.9	27	14	2042	0.9	27	29	1156	0.3	9
W	2052	0.8	24	Th	2049	0.9	27	19	2125	0.8	24	31				15	1056	0.2	6	30	2006	0.7	21
16	1032	0.0	0	31	1003	-0.1	-3	20	1129	0.1	3					15	2106	0.9	27	30	1255	0.4	12
Th	2116	0.8	24	F	2121	0.9	27	21	2142	0.8	24					30	2106	0.9	27	31	1948	0.7	21

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

San Juan, Puerto Rico, 2020

Times and Heights of High and Low Waters

July				August				September																
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height											
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm										
1 W	0441	1.1	34		16 Th	0018	0.7	21		1 Sa	0155	0.6	18											
	1107	-0.2	-6	0422		0.9	27	0611	1.0		30	16 Su	0134	0.7	21									
	1826	1.8	55	1052		0.0	0	1234	-0.1		-3		0535	1.0	30	1 Tu	0252	0.6	18					
			1831	1.6	49	2004	1.9	58	1159	0.0	0		0756	1.2	37		16 W	0202	0.6	18				
2 Th	0058	0.5	15	17 F	0124	0.7	21	2 Su	0245	0.6	18	17 M	0215	0.7	21			2 W	0325	0.6	18	17 Th	0240	0.5	15
	0533	1.0	30		0510	0.9	27		0708	1.0	30		0633	1.0	30	0847			1.3	40	0826		1.6	49
	1157	-0.3	-9		1138	0.0	0		1328	-0.1	-3		1255	0.0	0	1458	0.2		6	1439	0.2		6	
	1923	1.9	58	1919	1.7	52	2053	1.8	55	2020	1.9	58	2142	1.6	49	2110	1.8	55						
3 F	0205	0.5	15	18 Sa	0216	0.6	18	3 M	0329	0.6	18	18 Tu	0252	0.6	18	3 Th	0355	0.5	15	18 F	0319	0.4	12	
	0627	0.9	27		0601	0.9	27		0804	1.0	30		0733	1.1	34		0935	1.3	40		0926	1.7	52	
	1249	-0.3	-9		1226	-0.1	-3		1419	-0.1	-3		1350	0.0	0		1544	0.3	9		1539	0.2	6	
	2018	1.9	58	2005	1.7	52	2138	1.8	55	2104	1.9	58	2214	1.5	46	2153	1.7	52						
4 Sa	0303	0.4	12	19 Su	0300	0.6	18	4 Tu	0410	0.5	15	19 W	0329	0.6	18	4 F	0424	0.5	15	19 Sa	0400	0.3	9	
	0723	0.9	27		0654	0.9	27		0857	1.1	34		0833	1.2	37		1022	1.4	43		1024	1.8	55	
	1340	-0.3	-9		1315	-0.1	-3		1508	0.0	0		1445	0.0	0		1632	0.4	12		1642	0.3	9	
	2109	1.9	58	2050	1.8	55	2218	1.7	52	2147	1.9	58	2244	1.4	43	2235	1.5	46						
5 Su	0355	0.4	12	20 M	0340	0.6	18	5 W	0448	0.5	15	20 Th	0407	0.5	15	5 Sa	0453	0.5	15	20 Su	0443	0.2	6	
	0818	0.9	27		0747	0.9	27		0949	1.1	34		0933	1.3	40		1108	1.4	43		1123	1.9	58	
	1431	-0.2	-6		1404	-0.1	-3		1556	0.1	3		1542	0.1	3		1721	0.5	15		1747	0.5	15	
	2158	1.9	58	2135	1.9	58	2255	1.6	49	2229	1.8	55	2313	1.3	40	2318	1.4	43						
6 M	0444	0.4	12	21 Tu	0419	0.5	15	6 Th	0523	0.5	15	21 F	0447	0.4	12	6 Su	0524	0.4	12	21 M	0529	0.1	3	
	0913	0.9	27		0843	0.9	27		1040	1.1	34		1033	1.5	46		1154	1.5	46		1224	2.0	61	
	1522	-0.2	-6		1454	-0.1	-3		1645	0.2	6		1642	0.2	6		1812	0.6	18		1855	0.6	18	
	2244	1.8	55	2218	1.9	58	2329	1.5	46	2310	1.7	52	2341	1.2	37	2341	1.2	37						
7 Tu	0530	0.4	12	22 W	0458	0.5	15	7 F	0555	0.4	12	22 Sa	0528	0.3	9	7 M	0556	0.4	12	22 Tu	0003	1.3	40	
	1007	0.9	27		0940	1.0	30		1132	1.2	37		1135	1.6	49		1242	1.5	46		0618	2.0	61	
	1612	-0.1	-3		1548	-0.1	-3		1734	0.3	9		1745	0.3	9		1905	0.7	21		1327	2.0	61	
	2328	1.7	52	2300	1.8	55				2351	1.6	49				2002	0.6	18						
8 W	0613	0.4	12	23 Th	0536	0.4	12	8 Sa	0001	1.4	43	23 Su	0610	0.2	6	8 Tu	0009	1.2	37	23 W	0054	1.2	37	
	1100	0.9	27		1039	1.1	34		0625	0.4	12		1239	1.7	52		0631	0.3	9		0711	0.1	3	
	1703	0.0	0		1644	0.0	0		1225	1.2	37		1851	0.4	12		1333	1.6	49		1433	2.0	61	
			2341	1.8	55	1826	0.5	15					1959	0.8	24	2110	0.7	21						
9 Th	0008	1.6	49	24 F	0615	0.3	9	9 Su	0030	1.3	40	24 M	0033	1.4	43	9 W	0042	1.1	34	24 Th	0152	1.1	34	
	0651	0.4	12		1142	1.2	37		0656	0.3	9		0655	0.1	3		0709	0.3	9		0806	0.1	3	
	1156	0.9	27		1745	0.1	3		1320	1.3	40		1345	1.8	55		1427	1.6	49		1538	1.9	58	
	1754	0.2	6				1919	0.6	18		1959	0.6	18	2056	0.8	24	2218	0.7	21					
10 F	0046	1.5	46	25 Sa	0023	1.6	49	10 M	0059	1.2	37	25 Tu	0119	1.3	40	10 Th	0122	1.1	34	25 F	0257	1.1	34	
	0725	0.3	9		0654	0.2	6		0727	0.3	9		0741	0.1	3		0751	0.3	9		0906	0.2	6	
	1255	1.0	30		1249	1.3	40		1417	1.3	40		1452	1.8	55		1523	1.6	49		1639	1.8	55	
	1847	0.3	9	1848	0.3	9	2015	0.7	21		2111	0.6	18	2158	0.8	24	2320	0.7	21					
11 Sa	0121	1.3	40	26 Su	0104	1.5	46	11 Tu	0130	1.1	34	26 W	0209	1.2	37	11 F	0211	1.0	30	26 Sa	0404	1.1	34	
	0755	0.3	9		0734	0.1	3		0801	0.2	6		0831	0.0	0		0840	0.3	9		1009	0.2	6	
	1357	1.0	30		1358	1.4	43		1514	1.4	43		1558	1.9	58		1619	1.7	52		1736	1.8	55	
	1941	0.4	12	1955	0.4	12	2117	0.7	21		2226	0.7	21	2302	0.8	24								
12 Su	0154	1.2	37	27 M	0147	1.4	43	12 W	0206	1.1	34	27 Th	0305	1.1	34	12 Sa	0311	1.0	30	27 Su	0014	0.7	21	
	0825	0.2	6		0816	0.0	0		0839	0.2	6		0926	0.0	0		0935	0.2	6		0506	1.2	37	
	1459	1.1	34		1507	1.6	49		1608	1.5	46		1700	1.9	58		1714	1.8	55		1115	0.3	9	
	2039	0.5	15	2105	0.5	15	2226	0.8	24		2339	0.7	21	2358	0.8	24	1827	1.7	52					
13 M	0227	1.1	34	28 Tu	0233	1.2	37	13 Th	0249	1.0	30	28 F	0406	1.1	34	13 Su	0417	1.1	34	28 M	0058	0.7	21	
	0856	0.2	6		0900	0.0	0		0921	0.1	3		1024	0.1	3		1035	0.2	6		0604	1.3	40	
	1557	1.2	37		1613	1.7	52		1702	1.6	49		1759	1.9	58		1806	1.8	55		1217	0.3	9	
	2143	0.6	18	2222	0.6	18	2342	0.8	24							1911	1.7	52						
14 Tu	0301	1.0	30	29 W	0323	1.1	34	14 F	0340	1.0	30	29 Sa	0041	0.7	21	14 M	0044	0.8	24	29 Tu	0135	0.6	18	
	0930	0.1	3		0949	-0.1	-3		1010	0.1	3		0507	1.1	34		0521	1.2	37		0658	1.3	40	
	1651	1.3	40		1715	1.8	55		1753	1.7	52		1125	0.1	3		1138	0.2	6		1313	0.3	9	
	2258	0.7	21	2344	0.6	18				1854	1.8	55				1950	1.6	49						
15 W	0339	1.0	30	30 Th	0416	1.0	30	15 Sa	0046	0.8	24	30 Su	0132	0.7	21	15 Tu	0124	0.7	21	30 W	0206	0.6	18	
	1009	0.1	3		1042	-0.1	-3		0436	1.0	30		0606	1.1	34		0624	1.3	40		0749	1.4	43	
	1742	1.5	46		1815	1.8	55		1104	0.1	3		1225	0.1	3		1240	0.1	3		1403	0.4	12	
						1844	1.8	55					1942	1.9	58	2025	1.5	46						
				31 F	0056	0.6	18	31 M	0215	0.7	21	31 Tu	0215	0.7	21									
					0513	1.0	30		0702	1.2	37		0702	1.2	37									
					1138	-0.1	-3		1320	0.1	3		1320	0.1	3									

San Juan, Puerto Rico, 2020

Times and Heights of High and Low Waters

October					November					December				
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	
<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	<small>h m</small>	<small>ft cm</small>	
1 Th 0234 0.5 15 0836 1.5 46 1451 0.4 12 2057 1.4 43		16 F 0155 0.3 9 0820 1.8 55 1436 0.3 9 2030 1.5 46		1 Su 0240 0.2 6 0945 1.7 52 1621 0.6 18 2110 1.1 34		16 M 0248 -0.2 -6 1001 2.1 64 1641 0.4 12 2127 1.1 34		1 Tu 0236 0.0 0 1004 1.7 52 1700 0.6 18 2107 0.8 24		16 W 0316 -0.3 -9 1040 2.0 61 1725 0.4 12 2156 0.9 27				
2 F 0300 0.5 15 0921 1.6 49 1537 0.5 15 2127 1.4 43		17 Sa 0236 0.1 3 0917 2.0 61 1539 0.4 12 2114 1.4 43		2 M 0311 0.2 6 1024 1.8 55 1709 0.6 18 2142 1.0 30		17 Tu 0336 -0.2 -6 1055 2.1 64 1742 0.5 15 2218 1.0 30		2 W 0313 0.0 0 1043 1.7 52 1746 0.6 18 2145 0.8 24		17 Th 0409 -0.3 -9 1131 1.8 55 1817 0.4 12 2251 0.9 27				
3 Sa 0328 0.4 12 1003 1.6 49 1624 0.6 18 2157 1.3 40		18 Su 0319 0.0 0 1013 2.1 64 1643 0.4 12 2159 1.3 40		3 Tu 0344 0.2 6 1103 1.8 55 1759 0.7 21 2215 1.0 30		18 W 0427 -0.2 -6 1150 2.0 61 1841 0.5 15 2312 1.0 30		3 Th 0353 0.0 0 1123 1.7 52 1829 0.6 18 2227 0.8 24		18 F 0503 -0.2 -6 1220 1.7 52 1907 0.4 12 2350 0.9 27				
4 Su 0357 0.4 12 1045 1.7 52 1713 0.6 18 2225 1.2 37		19 M 0405 0.0 0 1109 2.1 64 1748 0.5 15 2246 1.2 37		4 W 0420 0.2 6 1143 1.8 55 1848 0.7 21 2251 0.9 27		19 Th 0522 -0.1 -3 1246 1.9 58 1938 0.5 15		4 F 0437 0.0 0 1205 1.7 52 1910 0.5 15 2315 0.8 24		19 Sa 0558 0.0 0 1308 1.6 49 1952 0.4 12				
5 M 0429 0.3 9 1126 1.7 52 1804 0.7 21 2255 1.1 34		20 Tu 0454 0.0 0 1207 2.1 64 1853 0.6 18 2336 1.1 34		5 Th 0500 0.2 6 1227 1.8 55 1935 0.7 21 2332 0.9 27		20 F 0011 1.0 30 0620 0.0 0 1342 1.8 55 2032 0.5 15		5 Sa 0527 0.1 3 1249 1.7 52 1948 0.5 15		20 Su 0055 0.9 27 0654 0.1 3 1354 1.4 43 2033 0.3 9				
6 Tu 0502 0.3 9 1209 1.7 52 1856 0.7 21 2326 1.1 34		21 W 0547 0.0 0 1307 2.0 61 1957 0.6 18		6 F 0547 0.2 6 1315 1.7 52 2020 0.7 21		21 Sa 0119 1.0 30 0719 0.2 6 1437 1.7 52 2121 0.5 15		6 Su 0014 0.8 24 0623 0.1 3 1335 1.6 49 2025 0.5 15		21 M 0205 0.9 27 0752 0.2 6 1436 1.3 40 2109 0.3 9				
7 W 0540 0.3 9 1255 1.7 52 1948 0.8 24		22 Th 0032 1.1 34 0644 0.1 3 1410 1.9 58 2058 0.6 18		7 Sa 0024 0.9 27 0640 0.2 6 1406 1.7 52 2102 0.7 21		22 Su 0232 1.0 30 0821 0.3 9 1528 1.5 46 2206 0.5 15		7 M 0125 0.9 27 0724 0.2 6 1422 1.6 49 2103 0.4 12		22 Tu 0315 1.0 30 0854 0.4 12 1515 1.2 37 2143 0.2 6				
8 Th 0002 1.0 30 0622 0.3 9 1346 1.7 52 2040 0.8 24		23 F 0137 1.1 34 0743 0.2 6 1512 1.8 55 2156 0.6 18		8 Su 0130 0.9 27 0739 0.3 9 1500 1.7 52 2144 0.6 18		23 M 0343 1.1 34 0925 0.4 12 1613 1.4 43 2245 0.4 12		8 Tu 0244 1.0 30 0831 0.3 9 1510 1.5 46 2144 0.2 6		23 W 0419 1.1 34 1002 0.5 15 1553 1.1 34 2217 0.1 3				
9 F 0047 1.0 30 0710 0.3 9 1442 1.7 52 2132 0.8 24		24 Sa 0249 1.1 34 0845 0.3 9 1609 1.7 52 2249 0.6 18		9 M 0248 1.0 30 0844 0.3 9 1552 1.7 52 2227 0.5 15		24 Tu 0447 1.2 37 1034 0.5 15 1653 1.3 40 2320 0.3 9		9 W 0359 1.2 37 0944 0.4 12 1558 1.4 43 2226 0.1 3		24 Th 0517 1.2 37 1121 0.5 15 1629 1.0 30 2252 0.1 3				
10 Sa 0144 1.0 30 0805 0.3 9 1539 1.7 52 2223 0.8 24		25 Su 0358 1.1 34 0951 0.4 12 1701 1.6 49 2336 0.6 18		10 Tu 0404 1.2 37 0955 0.3 9 1641 1.6 49 2309 0.4 12		25 W 0543 1.3 40 1146 0.5 15 1730 1.2 37 2351 0.3 9		10 Th 0506 1.4 43 1101 0.4 12 1646 1.3 40 2312 -0.1 -3		25 F 0608 1.3 40 1236 0.5 15 1708 0.9 27 2330 0.0 0				
11 Su 0255 1.1 34 0906 0.3 9 1633 1.8 55 2311 0.7 21		26 M 0501 1.2 37 1059 0.4 12 1746 1.5 46		11 W 0512 1.4 43 1108 0.4 12 1729 1.6 49 2351 0.3 9		26 Th 0634 1.4 43 1252 0.6 18 1805 1.1 34		11 F 0608 1.6 49 1220 0.4 12 1735 1.2 37 2359 -0.2 -6		26 Sa 0656 1.4 43 1338 0.5 15 1748 0.8 24				
12 M 0407 1.1 34 1012 0.3 9 1725 1.8 55 2355 0.6 18		27 Tu 0015 0.5 15 0558 1.3 40 1205 0.5 15 1825 1.5 46		12 Th 0615 1.6 49 1221 0.4 12 1816 1.5 46		27 F 0022 0.2 6 0721 1.5 46 1350 0.6 18 1841 1.0 30		12 Sa 0706 1.8 55 1332 0.4 12 1826 1.1 34		27 Su 0009 -0.1 -3 0740 1.5 46 1429 0.5 15 1831 0.8 24				
13 Tu 0516 1.3 40 1121 0.3 9 1813 1.8 55		28 W 0047 0.5 15 0650 1.4 43 1304 0.5 15 1901 1.4 43		13 F 0034 0.1 3 0714 1.8 55 1331 0.4 12 1903 1.4 43		28 Sa 0054 0.1 3 0804 1.6 49 1441 0.6 18 1916 1.0 30		13 Su 0047 -0.3 -9 0802 1.9 58 1436 0.4 12 1917 1.0 30		28 M 0050 -0.1 -3 0823 1.6 49 1514 0.5 15 1914 0.8 24				
14 W 0036 0.5 15 0620 1.5 46 1228 0.3 9 1900 1.7 52		29 Th 0115 0.4 12 0738 1.5 46 1357 0.5 15 1934 1.3 40		14 Sa 0117 0.0 0 0811 2.0 61 1436 0.4 12 1950 1.3 40		29 Su 0127 0.0 0 0845 1.7 52 1528 0.5 15 1953 0.9 27		14 M 0136 -0.4 -12 0856 2.0 61 1535 0.4 12 2010 1.0 30		29 Tu 0130 -0.2 -6 0904 1.6 49 1556 0.5 15 1958 0.8 24				
15 Th 0115 0.4 12 0721 1.6 49 1333 0.3 9 1945 1.6 49		30 F 0142 0.3 9 0823 1.6 49 1446 0.5 15 2007 1.2 37		15 Su 0202 -0.2 -6 0907 2.1 64 1539 0.4 12 2038 1.2 37		30 M 0201 0.0 0 0925 1.7 52 1614 0.5 15 2030 0.9 27		15 Tu 0225 -0.4 -12 0949 2.0 61 1631 0.4 12 2103 0.9 27		30 W 0211 -0.2 -6 0944 1.7 52 1637 0.5 15 2042 0.7 21				
		31 Sa 0210 0.3 9 0905 1.7 52 1533 0.6 18 2039 1.1 34								31 Th 0253 -0.2 -6 1024 1.7 52 1716 0.4 12 2127 0.8 24				

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Charlotte Amalie, St. Thomas Island, 2020

Times and Heights of High and Low Waters

January				February				March																
Time	Height			Time	Height			Time	Height			Time	Height											
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm					
1 W	0402	0.1	3		16 Th	0129	0.2	6		1 Su	0238	0.4	12		16 M	0401	0.6	18						
	1329	0.6	18			0626	0.1	3			0913	0.2	6			2002	-0.2	-6						
	2141	0.1	3			1316	0.6	18			1237	0.3	9											
2 Th	1349	0.6	18		17 F	0355	0.4	12		2 Su	0513	0.4	12		17 M	0543	0.6	18		17 Tu	0506	0.6	18	
	2146	0.1	3			0831	0.3	9			2102	-0.2	-6			2143	-0.3	-9			2108	-0.2	-6	
						1327	0.4	12																
					2122	-0.1	-3																	
3 F	0555	0.3	9		18 Sa	0514	0.5	15		3 M	0556	0.5	15		18 Tu	0638	0.6	18		3 W	0459	0.5	15	
	0831	0.2	6			2150	-0.2	-6			2134	-0.2	-6			2236	-0.3	-9			2035	-0.2	-6	
	1405	0.5	15																					
	2158	0.0	0																					
4 Sa	0615	0.5	15		19 Su	0611	0.6	18		4 Tu	0637	0.6	18		19 W	0727	0.6	18		4 W	0552	0.6	18	
	1059	0.3	9			2222	-0.2	-6			2213	-0.3	-9			2329	-0.3	-9			2132	-0.3	-9	
	1413	0.4	12																					
	2214	0.0	0																					
5 Su	0642	0.5	15		20 M	0702	0.7	21		5 W	0719	0.7	21		20 Th	0811	0.6	18		5 Th	0640	0.7	21	
	2234	-0.1	-3			2259	-0.3	-9			2257	-0.4	-12								2230	-0.3	-9	
6 M	0714	0.6	18		21 Tu	0748	0.7	21		6 Th	0801	0.7	21		21 F	0019	-0.3	-9		6 F	0724	0.7	21	
	2258	-0.2	-6			2340	-0.4	-12			2344	-0.4	-12			0849	0.6	18			2330	-0.3	-9	
7 Tu	0748	0.7	21		22 W	0833	0.7	21		7 F	0842	0.8	24		22 Sa	0106	-0.3	-9		7 Sa	0805	0.8	24	
	2327	-0.3	-9								0921	0.6	18											
8 W	0826	0.8	24		23 Th	0022	-0.4	-12		8 Sa	0032	-0.4	-12		23 Su	0150	-0.2	-6		8 Su	0031	-0.2	-6	
						0915	0.7	21			0923	0.8	24			0946	0.6	18			0842	0.7	21	
																1712	0.1	3			1607	0.1	3	
													1916	0.2	6		1856	0.2	6					
9 Th	0002	-0.3	-9		24 F	0103	-0.4	-12		9 Su	0124	-0.4	-12		24 M	0232	-0.1	-3		9 M	0135	-0.2	-6	
	0906	0.8	24			0953	0.7	21			1001	0.8	24			1006	0.5	15			0916	0.7	21	
																1717	0.1	3			1617	0.2	6	
													2023	0.2	6		2012	0.3	9					
10 F	0040	-0.4	-12		25 Sa	0143	-0.3	-9		10 M	0218	-0.3	-9		25 Tu	0317	-0.1	-3		10 Tu	0245	-0.1	-3	
	0947	0.9	27			1028	0.7	21			1819	0.1	3			1023	0.5	15			0944	0.6	18	
											2038	0.2	6			1728	0.1	3			1632	0.1	3	
													2128	0.3	9		2126	0.4	12					
11 Sa	0122	-0.4	-12		26 Su	0220	-0.3	-9		11 Tu	0319	-0.2	-6		26 W	0409	0.0	0		11 W	0403	0.0	0	
	1029	0.9	27			1057	0.7	21			1107	0.7	21			1038	0.4	12			1008	0.5	15	
											1830	0.1	3			1740	0.1	3			1650	0.1	3	
									2210	0.3	9		2234	0.3	9		2241	0.5	15					
12 Su	0207	-0.3	-9		27 M	0255	-0.2	-6		12 W	0430	0.0	0		27 Th	0512	0.1	3		12 Th	0529	0.1	3	
	1110	0.9	27			1122	0.6	18			1133	0.6	18			1053	0.4	12			1025	0.3	9	
											1847	0.1	3			1754	0.1	3			1713	0.0	0	
									2348	0.3	9		2345	0.3	9									
13 M	0255	-0.3	-9		28 Tu	0331	-0.1	-3		13 Th	0556	0.1	3		28 F	0632	0.2	6		13 F	0001	0.6	18	
	1149	0.9	27			1143	0.6	18			1151	0.4	12			1106	0.3	9			0708	0.1	3	
						1938	0.1	3			1910	0.0	0			1810	0.0	0			1031	0.2	6	
					2159	0.2	6										1740	-0.1	-3					
14 Tu	0348	-0.1	-3		29 W	0412	0.0	0		14 F	0141	0.4	12		29 Sa	0107	0.4	12		14 Sa	0125	0.6	18	
	1224	0.8	24			1201	0.5	15			0743	0.2	6			0811	0.1	3			1816	-0.2	-6	
	2037	0.1	3			1945	0.1	3			1159	0.3	9			1114	0.2	6						
	2258	0.2	6		2341	0.2	6		1938	-0.1	-3		1832	-0.1	-3									
15 W	0453	0.0	0		30 Th	0513	0.1	3		15 Sa	0324	0.5	15		15 Su	0247	0.6	18		30 M	0145	0.6	18	
	1253	0.7	21			1217	0.5	15			2012	-0.2	-6			1903	-0.2	-6			1732	-0.2	-6	
	2043	0.1	3			1958	0.1	3																
					31 F	0203	0.2	6																
						0701	0.1	3																
						1231	0.4	12																
						2015	0.0	0																

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to mean lower low water which is the chart datum of soundings.

Charlotte Amalie, St. Thomas Island, 2020

Times and Heights of High and Low Waters

July				August				September																																	
Time	Height			Time	Height			Time	Height			Time	Height																												
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm																						
1 W	1100	-0.1	-3	27	16 Th	1035	-0.1	-3	24	1 Sa	1156	-0.1	-3	30	16 Su	1121	0.0	0	0	1 Tu	1336	0.2	6	27	16 W	0331	0.6	18	18	0648	0.7	21	21	1309	0.3	9	9	2039	1.1	34	34
2 Th	1130	-0.2	-6	27	17 F	1106	-0.1	-3	27	2 Su	1243	-0.1	-3	30	17 M	1209	0.0	0	34	2 W	0434	0.5	15	18	17 Th	0341	0.6	18	18	0800	0.8	24	24	1421	0.4	12	12	2106	1.0	30	30
3 F	1206	-0.2	-6	30	18 Sa	1142	-0.2	-6	27	3 M	1328	-0.1	-3	30	18 Tu	1300	0.0	0	34	3 Th	0442	0.5	15	18	18 F	0355	0.5	15	15	0910	0.9	27	27	1543	0.5	15	15	2130	0.9	27	27
4 Sa	1244	-0.3	-9	30	19 Su	1220	-0.2	-6	30	4 Tu	1411	0.0	0	27	19 W	1354	0.1	3	34	4 F	0453	0.5	15	21	19 Sa	0411	0.5	15	15	1021	0.9	27	27	1714	0.5	15	15	2146	0.7	21	21
5 Su	1325	-0.2	-6	27	20 M	1301	-0.2	-6	30	5 W	1453	0.1	3	27	20 Th	0540	0.5	15	18	5 Sa	0505	0.5	15	21	20 Su	0431	0.4	12	12	1135	1.0	30	30	1858	0.5	15	15	2151	0.6	18	18
6 M	1405	-0.2	-6	27	21 Tu	1345	-0.1	-3	30	6 Th	1538	0.2	6	24	21 F	0552	0.5	15	18	6 Su	0517	0.4	12	24	21 M	0457	0.3	9	34	1253	1.1	34	34	1849	0.5	15	15	2236	0.6	18	18
7 Tu	1445	-0.1	-3	27	22 W	1432	-0.1	-3	30	7 F	0657	0.4	12	15	22 Sa	0608	0.4	12	21	7 M	0533	0.4	12	24	22 Tu	0532	0.2	6	34	1412	1.1	34	34	2031	0.5	15	15	2237	0.6	18	18
8 W	1524	0.0	0	0	23 Th	1525	0.1	3	30	8 Sa	0708	0.4	12	15	23 Su	0630	0.3	9	24	8 Tu	0555	0.3	9	24	23 W	0619	0.2	6	34	1526	1.1	34	34	1926	0.5	15	15	2326	0.7	21	21
9 Th	0021	0.8	24	3	24 F	0754	0.3	9	12	9 Su	0723	0.3	9	18	24 M	0656	0.3	9	27	9 W	0627	0.3	9	27	24 Th	0720	0.2	6	34	1631	1.1	34	34	1927	0.5	15	15	1705	1.0	30	30
10 F	0046	0.8	24	6	25 Sa	0019	0.9	27	9	10 M	0006	0.6	18	9	25 Tu	0731	0.2	6	30	10 Th	0712	0.2	6	27	25 F	0829	0.2	6	34	1728	1.1	34	34	1705	1.0	30	30	1725	1.0	30	30
11 Sa	0901	0.2	6	9	26 Su	0821	0.2	6	15	11 Tu	0008	0.5	15	6	26 W	0813	0.1	3	30	11 F	0805	0.2	6	30	26 Sa	0940	0.2	6	34	1817	1.1	34	34	1705	1.0	30	30	1725	1.0	30	30
12 Su	0124	0.6	18	6	27 M	0053	0.6	18	3	12 W	0833	0.1	3	24	27 Th	0905	0.1	3	30	12 Sa	0903	0.2	6	34	27 Su	1048	0.3	9	30	1857	1.0	30	30	1803	1.0	30	30	1812	1.1	34	34
13 M	0136	0.6	18	3	28 Tu	0911	0.1	3	24	13 Th	0908	0.1	3	27	28 F	1001	0.0	0	30	13 Su	1002	0.2	6	34	28 M	0239	0.4	12	12	1928	1.0	30	30	1854	1.1	34	34	1854	1.1	34	34
14 Tu	0136	0.5	15	3	29 W	0945	0.0	0	27	14 F	0950	0.0	0	27	29 Sa	1059	0.1	3	30	14 M	1102	0.2	6	34	29 Tu	0236	0.5	15	15	1251	0.4	12	12	1932	1.1	34	34	1932	1.1	34	34
15 W	1008	0.0	0	21	30 Th	1024	-0.1	-3	30	15 Sa	1034	0.0	0	30	30 Su	1154	0.1	3	30	15 Tu	0327	0.5	15	18	30 W	0242	0.5	15	15	1351	0.4	12	12	2007	1.1	34	34	2007	1.1	34	34
	1858	0.7	21		31 F	1109	-0.1	-3	30		1939	1.0	30		31 M	1246	0.1	3	30		0528	0.6	18			0724	0.7	21		2010	0.9	27									

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Charlotte Amalie, St. Thomas Island, 2020

Times and Heights of High and Low Waters

October				November				December							
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height		
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm	
1 Th	0252	0.5	15		16 F	0211	0.4	12		1 Su	0147	0.2	6		
	0815	0.8	24			0828	1.0	30			0955	1.0	30		
	1452	0.5	15			1512	0.5	15		16 M	1030	1.2	37		
	2024	0.8	24			1952	0.8	24			1028	0.9	27		
2 F	0301	0.5	15		17 Sa	0226	0.4	12		2 M	0159	0.2	6		
	0904	0.8	24			0929	1.1	34			1035	1.0	30		
	1557	0.5	15			1650	0.5	15		17 Tu	0219	-0.1	-3		
	2037	0.7	21			2005	0.6	18			1125	1.1	34		
3 Sa	0309	0.4	12		18 Su	0245	0.3	9		3 Tu	0218	0.1	3		
	0951	0.9	27			1030	1.1	34			1118	1.0	30		
	1709	0.6	18							18 W	0256	-0.1	-3		
	2049	0.7	21								1223	1.1	34		
4 Su	0316	0.4	12		19 M	0308	0.2	6		4 W	0244	0.1	3		
	1039	0.9	27			1133	1.2	37			1206	1.0	30		
	1829	0.5	15							19 Th	0338	0.0	0		
	2056	0.6	18								1320	1.1	34		
5 M	0326	0.3	9		20 Tu	0339	0.1	3		5 Th	0317	0.1	3		
	1129	0.9	27			1239	1.2	37			1259	1.0	30		
										20 F	0427	0.0	0		
											1414	1.0	30		
6 Tu	0343	0.3	9		21 W	0419	0.1	3		6 F	0357	0.1	3		
	1225	1.0	30			1347	1.1	34			1354	1.0	30		
										21 Sa	0528	0.1	3		
											1501	0.9	27		
7 W	0412	0.3	9		22 Th	0513	0.1	3		7 Sa	0448	0.2	6		
	1328	1.0	30			1452	1.1	34			1446	1.1	34		
										22 Su	0656	0.2	6		
											1540	0.9	27		
8 Th	0453	0.2	6		23 F	0626	0.2	6			2352	0.3	9		
	1434	1.0	30			1551	1.1	34			2352	0.3	9		
										23 M	0524	0.4	12		
											0836	0.3	9		
9 F	0548	0.2	6								1609	0.8	24		
	1537	1.0	30		24 Sa	0749	0.2	6			2344	0.3	9		
						1641	1.0	30							
										24 Tu	0618	0.5	15		
10 Sa	0657	0.2	6		25 Su	0912	0.3	9			1017	0.4	12		
	1631	1.1	34			1722	1.0	30			1630	0.7	21		
											2350	0.3	9		
										25 W	0659	0.6	18		
11 Su	0813	0.3	9		26 M	0107	0.4	12			1158	0.5	15		
	1717	1.1	34			0528	0.5	15			1646	0.6	18		
						1032	0.4	12							
						1752	0.9	27			26 Th	0000	0.2	6	
											0735	0.7	21		
12 M	0930	0.3	9		27 Tu	0104	0.4	12			1338	0.5	15		
	1757	1.1	34			0629	0.6	18			1656	0.6	18		
						1149	0.5	15							
						1815	0.8	24			27 F	0012	0.1	3	
											0809	0.8	24		
13 Tu	0145	0.5	15		28 W	0111	0.4	12		13 F	0045	0.2	6		
	0507	0.6	18			0718	0.7	21			0749	0.9	27		
	1048	0.4	12			1305	0.5	15			1442	0.5	15		
	1833	1.1	34			1832	0.8	24			1804	0.6	18		
14 W	0150	0.5	15		29 Th	0120	0.4	12		14 Sa	0101	0.2	6		
	0622	0.7	21			0800	0.8	24			0842	1.1	34		
	1211	0.4	12			1420	0.5	15							
	1904	1.0	30			1845	0.7	21			29 Su	0041	0.0	0	
											0915	0.9	27		
15 Th	0159	0.5	15		30 F	0129	0.3	9		15 Su	0122	0.1	3		
	0727	0.8	24			0839	0.9	27			0935	1.1	34		
	1339	0.5	15			1537	0.5	15							
	1931	0.9	27			1855	0.6	18			30 M	0059	0.0	0	
											0950	0.9	27		
					31 Sa	0138	0.3	9							
						0917	0.9	27			30 Tu	0121	-0.3	-9	
						1657	0.5	15				1025	1.0	30	
						1901	0.6	18							
											31 Th	0138	-0.3	-9	
												1053	0.9	27	

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Lime Tree Bay, St. Croix Island, 2020

Times and Heights of High and Low Waters

July				August				September															
Time		Height		Time		Height		Time		Height		Time		Height									
h	m	ft	cm	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm								
1	1000	0.0	0	16	0945	0.0	0	1	1040	-0.1	-3	16	1027	0.0	0	1	1213	0.2	6	16	1136	0.3	9
W	2139	0.9	27	Th	2113	0.9	27	Sa	2215	1.0	30	Su	2152	1.0	30	Tu	2153	0.9	27	W	2143	0.9	27
2	1022	-0.1	-3	17	1018	-0.1	-3	2	1127	-0.1	-3	17	1113	0.0	0	2	1254	0.3	9	17	1227	0.4	12
Th	2156	0.9	27	F	2139	0.9	27	Su	2248	0.9	27	M	2227	1.1	34	W	2132	0.8	24	Th	2057	0.8	24
3	1053	-0.2	-6	18	1055	-0.1	-3	3	1211	0.0	0	18	1156	0.1	3	3	1329	0.4	12	18	0439	0.6	18
F	2225	0.9	27	Sa	2212	1.0	30	M	2312	0.9	27	Tu	2257	1.0	30	Th	2127	0.8	24	F	0724	0.7	21
4	1130	-0.2	-6	19	1133	-0.1	-3	4	1249	0.0	0	19	1235	0.1	3	4	0458	0.6	18	18	1320	0.5	15
Sa	2300	0.9	27	Su	2248	1.0	30	Tu	2309	0.9	27	W	2308	1.0	30	F	0806	0.7	21	F	2014	0.7	21
5	1209	-0.2	-6	20	1210	-0.1	-3	5	1322	0.1	3	20	1309	0.3	9	5	0431	0.6	18	19	0326	0.6	18
Su	2335	0.9	27	M	2324	1.0	30	W	2251	0.9	27	Th	2233	0.9	27	Sa	0922	0.7	21	Sa	0903	0.8	24
○				21	1246	-0.1	-3	6	1349	0.2	6	21	1336	0.4	12	6	1423	0.5	15	20	1426	0.6	18
6	1248	-0.2	-6	Tu	2354	1.0	30	Th	2247	0.8	24	F	2154	0.8	24	Su	2048	0.7	21	Sa	1936	0.7	21
M				22	1319	0.0	0	7	1410	0.3	9	21	1336	0.4	12	6	0401	0.5	15	21	0255	0.3	9
7	0003	0.9	27	W				F	2247	0.8	24	Sa	2154	0.8	24	M	1036	0.7	21	M	1528	0.8	24
Tu	1325	-0.1	-3	23	0009	1.0	30	7	1410	0.3	9	22	0626	0.5	15	Su	1439	0.6	18	21	0335	0.2	6
8	0010	0.8	24	Th	1347	0.1	3	8	1423	0.4	12	Sa	0846	0.6	18	7	0406	0.4	12	Tu	1626	0.9	27
W	1357	0.0	0	1347	0.1	3	27	Sa	2241	0.7	21	23	1351	0.5	15	M	1205	0.7	21	22	0335	0.2	6
9	0004	0.8	24	2347	0.9	27	27	9	0657	0.4	12	23	2130	0.8	24	M	1431	0.6	18	Tu	1626	0.9	27
Th	1424	0.1	3	24	1407	0.2	6	Su	1120	0.5	15	24	0626	0.5	15	7	1722	0.7	21	23	0425	0.1	3
10	0005	0.8	24	F	2316	0.9	27	10	1414	0.4	12	25	0846	0.6	18	M	0433	0.3	9	W	1720	0.9	27
F	1441	0.2	6	25	1413	0.4	12	10	2214	0.7	21	25	2105	0.8	24	8	0433	0.3	9	Th	1626	0.9	27
11	0006	0.7	21	Sa	2255	0.8	24	11	0646	0.4	12	26	0531	0.4	12	8	1728	0.8	24	24	0522	0.1	3
Sa	1440	0.3	9	26	0833	0.4	12	11	2049	0.7	21	26	2009	0.8	24	9	0512	0.2	6	Th	1813	0.9	27
2358	0.7	21	21	0833	0.4	12	24	11	0657	0.3	9	26	0552	0.3	9	9	1756	0.8	24	25	0629	0.1	3
12	0937	0.4	12	1108	0.5	15	24	11	1414	0.4	12	27	1908	0.9	27	10	0559	0.2	6	F	1901	0.9	27
Su	2319	0.7	21	1341	0.4	12	24	11	2214	0.7	21	27	0552	0.3	9	10	1832	0.9	27	26	0740	0.1	3
○				2235	0.8	24	24	11	0657	0.3	9	27	0633	0.1	3	11	0653	0.1	3	Sa	1944	0.9	27
13	0909	0.3	9	2235	0.8	24	24	11	1954	0.8	24	27	1925	0.9	27	11	1913	0.9	27	27	0853	0.2	6
M	2142	0.7	21	27	0805	0.4	12	12	0726	0.2	6	27	0727	0.1	3	12	0753	0.1	3	Su	2014	0.8	24
14	0905	0.2	6	28	0809	0.2	6	12	1954	0.8	24	28	0727	0.1	3	12	1953	1.0	30	28	1004	0.3	9
Tu	2100	0.8	24	Tu	2057	0.9	27	13	0806	0.1	3	28	1959	1.0	30	13	0852	0.1	3	M	2021	0.8	24
15	0920	0.1	3	29	0833	0.1	3	13	2012	0.9	27	28	0826	0.0	0	13	2033	1.0	30	29	1114	0.3	9
W	2058	0.8	24	W	2049	0.9	27	14	0851	0.1	3	29	0826	0.0	0	13	0852	0.1	3	Tu	2001	0.8	24
16	0920	0.1	3	30	0909	0.0	0	14	2041	0.9	27	29	2037	1.0	30	14	0949	0.2	6	30	1229	0.4	12
W	2058	0.8	24	Th	2110	1.0	30	15	0851	0.1	3	29	0928	0.0	0	14	2110	1.0	30	W	1951	0.7	21
17	0920	0.1	3	31	0953	-0.1	-3	15	2041	0.9	27	30	2114	0.9	27	15	1043	0.2	6				
W	2058	0.8	24	F	2140	1.0	30	15	0939	0.0	0	30	2147	0.9	27	15	2138	1.0	30				
18	0920	0.1	3	31	0953	-0.1	-3	15	2116	1.0	30	31	1124	0.1	3	15	2138	1.0	30				
W	2058	0.8	24	F	2140	1.0	30	15	2116	1.0	30	31	2206	0.9	27	15	2138	1.0	30				
19	0920	0.1	3	31	0953	-0.1	-3	15	2116	1.0	30	31	2206	0.9	27	15	2138	1.0	30				
W	2058	0.8	24	F	2140	1.0	30	15	2116	1.0	30	31	2206	0.9	27	15	2138	1.0	30				

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Isla Zapara (Malecon), Venezuela, 2020

Times and Heights of High and Low Waters

January				February				March																					
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 W	0351	1.4	43		16 Th	0310	0.8	24		1 Sa	0419	1.8	55		16 Su	0507	1.2	37		1 Su	0344	1.9	58		16 M	0504	1.2	37	
	1025	3.9	119			0947	4.5	137			1049	3.7	113			1120	4.4	134			1002	3.4	104			1101	4.1	125	
	1640	2.1	64			1558	1.2	37			1708	1.5	46			1747	0.2	6			1617	1.2	37			1727	0.0	0	
	2202	3.8	116			2159	4.3	131			2307	3.6	110								2242	3.5	107						
2 Th	0429	1.6	49		17 F	0410	1.0	30		2 Su	0455	1.8	55		17 M	0010	4.1	125		2 M	0424	1.9	58		17 Tu	0001	4.1	125	
	1100	4.0	122			1042	4.6	140			1124	3.8	116			0609	1.2	37			1042	3.5	107			0604	1.2	37	
	1721	2.0	61			1701	0.9	27			1743	1.3	40			1215	4.4	134			1657	1.0	30			1158	4.2	128	
	2250	3.8	116			2307	4.3	131			2354	3.6	110			1844	0.1	3			2327	3.5	107			1823	0.1	3	
3 F	0503	1.7	52		18 Sa	0510	1.1	34		3 M	0531	1.8	55		18 Tu	0110	4.1	125		3 Tu	0504	1.8	55		18 W	0056	4.1	125	
	1133	4.0	122			1136	4.6	140			1200	3.9	119			0706	1.2	37			1122	3.7	113			0659	1.1	34	
	1757	1.8	55			1801	0.6	18			1820	1.0	30			1938	0.1	3			1738	0.7	21			1915	0.2	6	
	2337	3.8	116																										
4 Sa	0534	1.8	55		19 Su	0012	4.2	128		4 Tu	0039	3.6	110		19 W	0205	4.0	122		4 W	0010	3.6	110		19 Th	0144	4.0	122	
	1206	4.1	125			0610	1.2	37			0610	1.7	52			0800	1.3	40			0546	1.6	49			0749	1.1	34	
	1830	1.6	49			1228	4.7	143			1237	4.0	122			1357	4.4	134			1202	3.9	119			1339	4.1	125	
						1858	0.4	12			1859	0.8	24			2029	0.2	6			1821	0.5	15			2004	0.4	12	
5 Su	0023	3.8	116		20 M	0114	4.2	128		5 W	0123	3.7	113		20 Th	0255	3.9	119		5 Th	0051	3.7	113		20 F	0228	3.9	119	
	0607	1.8	55			0708	1.4	43			0652	1.7	52			0851	1.4	43			0630	1.5	46			0836	1.2	37	
	1240	4.2	128			1319	4.7	143			1316	4.2	128			1444	4.3	131			1245	4.1	125			1425	4.1	125	
	1904	1.3	40			1953	0.3	9			1942	0.5	15			2118	0.4	12			1906	0.4	12			2050	0.7	21	
6 M	0108	3.8	116		21 Tu	0214	4.1	125		6 Th	0207	3.8	116		21 F	0342	3.8	116		6 F	0133	3.9	119		21 Sa	0307	3.8	116	
	0642	1.8	55			0804	1.5	46			0737	1.6	49			0940	1.5	46			0717	1.3	40			0920	1.3	40	
	1314	4.2	128			1409	4.6	140			1358	4.4	134			1529	4.2	128			1331	4.4	134			1507	4.0	122	
	1940	1.1	34			2046	0.3	9			2026	0.4	12			2205	0.7	21			1953	0.2	6			2132	1.0	30	
7 Tu	0154	3.8	116		22 W	0310	4.0	122		7 F	0252	3.9	119		22 Sa	0426	3.7	113		7 Sa	0217	4.0	122		22 Su	0343	3.7	113	
	0721	1.8	55			0900	1.6	49			0826	1.5	46			1027	1.6	49			0807	1.2	37			1002	1.3	40	
	1350	4.3	131			1458	4.6	140			1443	4.6	140			1613	4.1	125			1420	4.5	137			1549	3.8	116	
	2018	0.9	27			2139	0.3	9			2113	0.3	9			2250	0.9	27			2042	0.2	6			2212	1.3	40	
8 W	0240	3.8	116		23 Th	0405	3.9	119		8 Sa	0339	3.9	119		23 Su	0508	3.6	110		8 Su	0303	4.1	125		23 M	0418	3.6	110	
	0803	1.8	55			0953	1.7	52			0917	1.5	46			1113	1.7	52			0901	1.0	30			1042	1.4	43	
	1429	4.4	134			1546	4.4	134			1532	4.7	143			1656	3.9	119			1513	4.6	140			1632	3.7	113	
	2101	0.7	21			2229	0.5	15			2203	0.2	6			2334	1.2	37			2133	0.3	9			2250	1.5	46	
9 Th	0327	3.8	116		24 F	0458	3.8	116		9 Su	0429	4.0	122		24 M	0549	3.5	107		9 M	0352	4.2	128		24 Tu	0454	3.5	107	
	0849	1.8	55			1047	1.9	58			1014	1.4	43			1159	1.8	55			0958	0.9	27			1121	1.4	43	
	1511	4.5	137			1634	4.3	131			1626	4.7	143			1741	3.8	116			1610	4.6	140			1717	3.6	110	
	2146	0.5	15			2319	0.7	21			2255	0.3	9								2227	0.4	12			2327	1.7	52	
10 F	0416	3.9	119		25 Sa	0549	3.7	113		10 M	0521	4.1	125		25 Tu	0016	1.4	43		10 Tu	0445	4.2	128		25 W	0531	3.4	104	
	0939	1.9	58			1140	2.0	61			1114	1.3	40			0630	3.4	104			1059	0.7	21			1200	1.4	43	
	1557	4.6	140			1721	4.2	128			1724	4.6	140			1245	1.8	55			1711	4.5	137			1805	3.5	107	
	2234	0.4	12								2350	0.4	12			1828	3.7	113			2325	0.6	18						
11 Sa	0507	3.9	119		26 Su	0008	0.9	27		11 Tu	0618	4.1	125		26 W	0057	1.6	49		11 W	0541	4.2	128		26 Th	0006	1.9	58	
	1034	1.9	58			0639	3.6	110			1219	1.2	37			0712	3.4	104			1203	0.6	18			0612	3.3	101	
	1647	4.6	140			1234	2.1	64			1827	4.5	137			1330	1.8	55			1818	4.4	134			1240	1.4	43	
	2325	0.4	12			1808	4.0	122								1918	3.5	107								1856	3.4	104	
12 Su	0600	4.0	122		27 M	0056	1.1	34		12 W	0049	0.6	18		27 Th	0139	1.8	55		12 Th	0028	0.8	24		27 F	0049	2.0	61	
	1133	1.9	58			0727	3.6	110			0717	4.2	128			0755	3.3	101			0643	4.2	128			0656	3.2	98	
	1741	4.6	140			1327	2.1	64			1327	1.1	34			1415	1.7	52			1310	0.4	12			1321	1.3	40	
						1857	3.9	119			1934	4.4	134			2010	3.5	107			1929	4.3	131			1950	3.4	104	
13 M	0018	0.5	15		28 Tu	0142	1.3	40		13 Th	0151	0.8	24		28 F	0221	1.9	58		13 F	0136	1.0	30		28 Sa	0137	2.1	64	
	0656	4.1	125			0812	3.6	110			0819	4.3	131			0839	3.3	101			0748	4.1	125			0741	3.1	94	
	1237	1.8	55			1419	2.1	64			1435	0.9	27			1457	1.6	49			1417	0.3	9			1403	1.2	37	
	1841	4.6	140			1947	3.8	116			2045	4.3	131			2103	3.4	104			2042	4.2	128			2043	3.4	104	
14 Tu	0113	0.5	15		29 W	0225	1.5	46		14 F	0256	1.0	30		29 Sa	0303	1.9	58		14 Sa	024								

Isla Zapara (Malecon), Venezuela, 2020

Times and Heights of High and Low Waters

April				May				June																				
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height															
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm														
1 W ○	0443	1.8	55		16 Th	0032	4.2	128		1 F	0512	1.6	49		16 Sa	0039	4.3	131		1 M	0014	4.8	146		16 Tu	0101	4.3	131
	1045	3.6	110			0644	1.2	37			1104	3.9	119			0708	1.3	40			0646	0.8	24			0751	1.1	34
	1700	0.6	18			1227	4.0	122			1715	0.5	15			1244	3.7	113			1246	4.1	125			1343	3.6	110
	2342	3.8	116			1846	0.5	15			2355	4.3	131			1851	1.3	40			1835	1.1	34			1910	2.0	61
2 Th	0527	1.6	49		17 F	0115	4.1	125		2 Sa	0602	1.3	40		17 Su	0112	4.2	128		2 Tu	0059	4.9	149		17 W	0133	4.3	131
	1131	3.8	116			0731	1.1	34			1158	4.0	122			0749	1.2	37			0739	0.4	12			0823	1.0	30
	1746	0.4	12			1315	3.9	119			1804	0.6	18			1330	3.7	113			1348	4.1	125			1429	3.6	110
						1931	0.8	24							1927	1.5	46				1930	1.3	40			1943	2.1	64
3 F	0022	3.9	119		18 Sa	0152	4.1	125		3 Su	0036	4.4	134		18 M	0142	4.2	128		3 W	0146	4.9	149		18 Th	0206	4.3	131
	0614	1.4	43			0815	1.1	34			0653	1.0	30			0826	1.1	34			0833	0.1	3			0854	0.8	24
	1218	4.1	125			1359	3.9	119			1253	4.2	128			1413	3.6	110			1450	4.1	125			1515	3.6	110
	1833	0.4	12			2013	1.1	34			1855	0.6	18			2000	1.8	55			2029	1.5	46			2021	2.2	67
4 Sa	0102	4.1	125		19 Su	0226	4.0	122		4 M	0119	4.6	140		19 Tu	0213	4.1	125		4 Th	0236	4.8	146		19 F	0241	4.2	128
	0703	1.1	34			0855	1.1	34			0745	0.6	18			0900	1.0	30			0928	-0.1	-3			0928	0.7	21
	1309	4.3	131			1442	3.8	116			1351	4.3	131			1458	3.6	110			1554	4.2	128			1602	3.7	113
	1922	0.3	9			2050	1.4	43			1947	0.8	24			2032	1.9	58			2131	1.7	52			2103	2.3	70
5 Su	0145	4.3	131		20 M	0257	3.9	119		5 Tu	0205	4.7	143		20 W	0245	4.0	122		5 F	0329	4.7	143		20 Sa	0318	4.2	128
	0754	0.9	27			0933	1.2	37			0840	0.3	9			0933	0.9	27			1024	-0.2	-6			1005	0.5	15
	1402	4.4	134			1524	3.7	113			1451	4.3	131			1543	3.6	110			1659	4.2	128			1650	3.7	113
	2012	0.4	12			2124	1.6	49			2043	1.0	30			2105	2.1	64			2237	1.9	58			2150	2.4	73
6 M	0231	4.4	134		21 Tu	0329	3.8	116		6 W	0254	4.7	143		21 Th	0319	3.9	119		6 Sa	0425	4.5	137		21 Su	0358	4.1	125
	0848	0.6	18			1009	1.1	34			0936	0.1	3			1006	0.8	24			1121	-0.2	-6			1045	0.5	15
	1459	4.5	137			1608	3.6	110			1554	4.3	131			1631	3.6	110			1806	4.2	128			1740	3.8	116
	2106	0.6	18			2158	1.8	55			2143	1.3	40			2144	2.2	67			2347	2.0	61			2243	2.4	73
7 Tu	0320	4.4	134		22 W	0403	3.7	113		7 Th	0347	4.6	140		22 F	0355	3.8	116		7 Su	0525	4.4	134		22 M	0441	4.1	125
	0946	0.4	12			1044	1.1	34			1034	-0.1	-3			1041	0.8	24			1218	-0.1	-3			1128	0.4	12
	1559	4.4	134			1655	3.5	107			1701	4.2	128			1721	3.6	110			1911	4.2	128			1830	3.9	119
	2202	0.8	24			2233	2.0	61			2248	1.5	46			2228	2.3	70								2340	2.5	76
8 W	0412	4.4	134		23 Th	0439	3.5	107		8 F	0444	4.4	134		23 Sa	0434	3.7	113		8 M	0059	2.1	64		23 Tu	0530	4.1	125
	1046	0.2	6			1119	1.1	34			1134	-0.2	-6			1120	0.7	21			0627	4.2	128			1214	0.4	12
	1704	4.4	134			1745	3.5	107			1810	4.2	128			1812	3.6	110			1316	0.1	3			1919	4.0	122
	2304	1.0	30			2314	2.1	64			2358	1.7	52			2319	2.4	73			2014	4.3	131					
9 Th	0510	4.3	131		24 F	0518	3.4	104		9 Sa	0546	4.3	131		24 Su	0516	3.7	113		9 Tu	0210	2.0	61		24 W	0041	2.4	73
	1148	0.1	3			1157	1.0	30			1236	-0.2	-6			1201	0.6	18			0730	4.0	122			0623	4.0	122
	1813	4.3	131			1837	3.5	107			1920	4.2	128			1904	3.7	113			1413	0.3	9			1302	0.5	15
																					2112	4.3	131			2008	4.2	128
10 F	0011	1.2	37		25 Sa	0001	2.2	67		10 Su	0113	1.8	55		25 M	0015	2.5	76		10 W	0316	2.0	61		25 Th	0145	2.3	70
	0612	4.2	128			0601	3.3	101			0653	4.1	125			0602	3.6	110			0833	3.9	119			0722	4.0	122
	1253	0.0	0			1237	0.9	27			1338	-0.1	-3			1245	0.6	18			1508	0.6	18			1352	0.6	18
	1925	4.2	128			1930	3.5	107			2029	4.2	128			1955	3.8	116			2203	4.4	134			2055	4.3	131
11 Sa	0124	1.4	43		26 Su	0055	2.3	70		11 M	0227	1.7	52		26 Tu	0114	2.4	73		11 Th	0415	1.8	55		26 F	0248	2.1	64
	0719	4.1	125			0647	3.3	101			0800	4.0	122			0654	3.6	110			0933	3.8	116			0825	4.0	122
	1358	-0.1	-3			1320	0.8	24			1439	0.0	0			1332	0.6	18			1559	0.9	27			1444	0.7	21
	2037	4.2	128			2022	3.5	107			2132	4.3	131			2043	3.9	119			2247	4.4	134			2141	4.5	137
12 Su	0239	1.4	43		27 M	0151	2.3	70		12 Tu	0336	1.7	52		27 W	0214	2.4	73		12 F	0509	1.7	52		27 Sa	0349	1.8	55
	0828	4.0	122			0736	3.3	101			0906	3.9	119			0749	3.6	110			1029	3.7	113			0931	3.9	119
	1502	-0.1	-3			1406	0.8	24			1538	0.2	6			1420	0.6	18			1646	1.2	37			1537	0.9	27
	2146	4.2	128			2111	3.6	110			2229	4.3	131			2128	4.0	122			2325	4.4	134			2227	4.7	143
13 M	0350	1.4	43		28 Tu	0245	2.2	67		13 W	0438	1.5	46		28 Th	0311	2.2	67		13 Sa	0557	1.6	49		28 Su	0448	1.4	43
	0935	4.0	122			0828	3.3	101			1008	3.9	119			0847	3.7	113										

Isla Zapara (Malecon), Venezuela, 2020

Times and Heights of High and Low Waters

July				August				September															
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height												
h m	ft	h m	ft	h m	ft	h m	ft	h m	ft	h m	ft												
1 W	0046 0733 1350 1923	5.0 0.2 4.0 1.6	152 6 122 49	16 Th	0055 0741 1357 1904	4.4 0.9 3.6 2.2	134 27 110 67	1 Sa	0218 0907 1547 2121	4.8 0.0 4.1 2.0	146 0 125 61	16 Su	0135 0812 1448 2003	4.6 0.5 3.9 2.0	140 15 119 61	1 Tu	0341 1024 1701 2257	4.4 0.8 4.1 2.1	134 24 125 64	16 W	0239 0905 1535 2130	4.8 0.5 4.5 1.5	146 15 137 46
2 Th	0135 0826 1452 2024	5.0 0.0 4.1 1.8	152 0 125 55	17 F	0130 0814 1442 1945	4.4 0.7 3.7 2.2	134 21 113 67	2 Su	0308 0958 1641 2219	4.7 0.1 4.1 2.1	143 3 125 64	17 M	0216 0853 1531 2054	4.7 0.3 4.1 2.0	143 9 125 61	2 W	0427 1108 1744 2350	4.2 1.1 4.0 2.1	128 34 122 64	17 Th	0333 0954 1623 2229	4.8 0.6 4.6 1.3	146 18 140 40
3 F	0225 0919 1655 2125	4.9 -0.1 4.1 2.0	149 -3 125 61	18 Sa	0207 0850 1527 2030	4.4 0.5 3.8 2.2	134 15 116 67	3 M	0357 1048 1734 2318	4.6 0.3 4.1 2.2	140 9 125 67	18 Tu	0302 0938 1616 2148	4.7 0.3 4.2 1.9	143 9 128 58	3 Th	0514 1151 1826	4.0 1.4 4.0	122 43 122	18 F	0432 1047 1715 2333	4.7 0.8 4.7 1.1	143 24 143 34
4 Sa	0317 1012 1655 2229	4.8 -0.1 4.1 2.1	146 -3 125 64	19 Su	0246 0929 1613 2119	4.5 0.4 3.9 2.3	137 12 119 70	4 Tu	0447 1136 1825	4.4 0.6 4.1	134 18 125	19 W	0351 1024 1704 2248	4.7 0.4 4.3 1.8	143 12 131 55	4 F	0043 0604 1232 1907	2.1 3.8 1.7 3.9	64 116 52 119	19 Sa	0536 1145 1812	4.5 1.0 4.7	137 30 143
5 Su	0411 1106 1755 2334	4.6 0.0 4.1 2.2	140 0 125 67	20 M	0328 1011 1700 2213	4.5 0.3 4.0 2.3	137 9 122 70	5 W	0017 0537 1224 1914	2.2 4.1 0.9 4.1	67 125 27 125	20 Th	0446 1114 1755 2352	4.6 0.5 4.4 1.7	140 15 134 52	5 Sa	0135 0656 1314 1948	2.1 3.6 1.9 3.9	64 110 58 119	20 Su	0039 0647 1248 1913	0.9 4.4 1.2 4.7	27 134 37 143
6 M	0506 1159 1854	4.4 0.2 4.2	134 6 128	21 Tu	0414 1056 1748 2311	4.5 0.3 4.1 2.2	137 9 125 67	6 Th	0117 0630 1311 2000	2.2 3.9 1.2 4.1	67 119 37 125	21 F	0547 1208 1848	4.5 0.7 4.5	137 21 137	6 Su	0225 0753 1355 2029	2.0 3.5 2.1 3.9	61 107 64 119	21 M	0147 0801 1356 2017	0.7 4.2 1.5 4.7	21 128 46 143
7 Tu	0040 0602 1252 1950	2.2 4.2 0.5 4.2	67 128 15 128	22 W	0505 1144 1837	4.4 0.4 4.2	134 12 128	7 F	0215 0724 1356 2042	2.2 3.7 1.5 4.1	67 113 46 125	22 Sa	0058 0653 1306 1945	1.5 4.3 0.9 4.6	46 131 27 140	7 M	0311 0850 1437 2109	1.8 3.4 2.2 3.9	55 104 67 119	22 Tu	0254 0917 1507 2120	0.5 4.2 1.6 4.7	15 128 49 143
8 W	0146 0700 1344 2042	2.2 4.0 0.8 4.2	67 122 24 128	23 Th	0014 0602 1234 1928	2.2 4.3 0.5 4.4	67 131 15 134	8 Sa	0311 0821 1439 2121	2.1 3.5 1.7 4.1	64 107 52 125	23 Su	0207 0806 1407 2043	1.2 4.2 1.2 4.7	37 128 37 143	8 Tu	0352 0946 1519 2149	1.7 3.4 2.3 3.9	52 104 70 119	23 W	0359 1029 1616 2222	0.3 4.2 1.6 4.8	9 128 49 146
9 Th	0249 0758 1434 2128	2.2 3.8 1.1 4.3	67 116 34 131	24 F	0120 0704 1327 2020	2.0 4.2 0.7 4.5	61 128 21 137	9 Su	0400 0918 1520 2158	1.9 3.4 1.9 4.1	58 104 58 125	24 M	0313 0920 1513 2142	0.9 4.1 1.4 4.8	27 125 43 146	9 W	0428 1038 1559 2228	1.5 3.4 2.3 4.0	46 104 70 122	24 Th	0500 1135 1721 2320	0.2 4.3 1.7 4.8	6 131 52 146
10 F	0347 0856 1521 2208	2.0 3.7 1.3 4.3	61 113 40 131	25 Sa	0227 0812 1423 2112	1.7 4.1 0.9 4.7	52 125 27 143	10 M	0443 1014 1559 2233	1.7 3.4 2.1 4.1	52 104 64 125	25 Tu	0418 1034 1619 2240	0.6 4.1 1.5 4.8	18 125 46 146	10 Th	0502 1125 1640 2305	1.2 3.5 2.3 4.1	37 107 70 125	25 F	0557 1235 1821	0.2 4.3 1.7	6 131 52
11 Sa	0439 0952 1604 2244	1.9 3.6 1.6 4.3	58 110 49 131	26 Su	0332 0923 1522 2204	1.4 4.0 1.1 4.8	43 122 34 146	11 Tu	0520 1106 1635 2309	1.5 3.4 2.1 4.2	46 104 64 128	26 W	0518 1143 1724 2335	0.3 4.1 1.6 4.9	9 125 49 149	11 F	0537 1208 1722 2343	1.0 3.7 2.2 4.3	30 113 67 131	26 Sa	0015 0651 1328 1916	4.8 0.2 4.3 1.7	146 6 131 52
12 Su	0525 1046 1643 2317	1.7 3.5 1.8 4.3	52 107 55 131	27 M	0434 1034 1622 2255	1.0 4.0 1.3 4.9	30 122 40 149	12 W	0553 1154 1712 2344	1.3 3.5 2.2 4.2	40 107 67 128	27 Th	0615 1246 1825	0.1 4.2 1.7	3 128 52	12 Sa	0614 1248 1806	0.8 3.8 2.1	24 116 64	27 Su	0106 0741 1417 2008	4.7 0.4 4.3 1.7	143 12 131 52
13 M	0604 1137 1718 2349	1.5 3.5 2.0 4.3	46 107 61 131	28 Tu	0533 1143 1723 2347	0.6 4.0 1.5 4.9	18 122 46 149	13 Th	0624 1240 1751	1.1 3.6 2.2	34 110 67	28 F	0029 0710 1345 1924	4.9 0.1 4.2 1.7	149 3 128 52	13 Su	0023 0653 1328 1852	4.5 0.6 4.0 2.0	137 18 122 61	28 M	0153 0828 1501 2058	4.6 0.6 4.3 1.8	140 18 131 55
14 Tu	0639 1225 1751	1.3 3.5 2.1	40 107 64	29 W	0629 1249 1824	0.3 4.0 1.6	9 122 49	14 F	0019 0658 1323 1832	4.3 0.8 3.7 2.1	131 24 113 64	29 Sa	0120 0801 1438 2019	4.8 0.1 4.2 1.8	146 3 128 55	14 M	0105 0735 1408 1941	4.7 0.5 4.1 1.8	143 15 125 55	29 Tu	0239 0913 1541 2146	4.5 0.9 4.2 1.8	137 27 128 55
15 W	0022 0710 1312 1826	4.3 1.1 3.5 2.1	131 34 107 64	30 Th	0038 0723 1351 1924	5.0 0.1 4.1 1.8	152 3 125 55	15 Sa	0056 0733 1406 1916	4.5 0.6 3.8 2.1	137 18 116 64	30 Su	0208 0851 1529 2112	4.8 0.3 4.2 1.9	146 9 128 58	15 Tu	0150 0818 1450 2033	4.8 0.4 4.3 1.7	146 12 131 52	30 W	0323 0954 1618 2232	4.3 1.3 4.1 1.9	131 40 125 58
				31 F	0128 0816 1450 2023	4.9 0.0 4.1 1.9	149 0 125 58					31 M	0255 0938 1616 2205	4.6 0.5 4.1 2.0	140 15 125 61								

Time meridian 67° 30' W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Amuay, Venezuela, 2020

Times and Heights of High and Low Waters

January				February				March																					
Time	Height			Time	Height			Time	Height			Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 W	0224	-0.1	-3		16 Th	0213	-0.3	-9		1 Sa	0244	0.1	3		16 Su	0333	0.1	3		1 Su	0203	0.3	9		16 M	0327	0.4	12	
	1044	0.9	27			0947	1.0	30			1021	0.7	21			1026	1.0	30			0747	0.7	21			0955	1.0	30	
	1532	0.5	15			1525	0.1	3			1643	0.0	0			1725	-0.6	-18			1549	-0.2	-6			1657	-0.5	-15	
	1757	0.6	18			2127	0.6	18			0																		
2 Th	0258	-0.1	-3		17 F	0301	-0.2	-6		2 Su	0000	0.3	9		17 M	0037	0.6	18		2 M	0003	0.5	15		17 Tu	0024	0.8	24	
	1107	0.9	27			1022	1.1	34			0324	0.2	6			0427	0.2	6			0251	0.4	12			0427	0.4	12	
	1643	0.4	12			1639	-0.1	-3			1030	0.8	24			1115	1.1	34			0833	0.8	24			1053	1.0	30	
	2225	0.5	15			2308	0.5	15			1730	-0.2	-6			1823	-0.7	-21			1641	-0.3	-9			1753	-0.5	-15	
3 F	0332	0.0	0		18 Sa	0348	0.0	0		3 M	0106	0.4	12		18 Tu	0139	0.6	18		3 Tu	0051	0.5	15		18 W	0115	0.8	24	
	1128	1.0	30			1059	1.2	37			0404	0.2	6			0518	0.3	9			0340	0.4	12			0521	0.4	12	
	1734	0.2	6			1744	-0.3	-9			1041	0.9	27			1202	1.1	34			0926	0.9	27			1149	1.0	30	
	2353	0.4	12								1814	-0.4	-12			1916	-0.7	-21			1729	-0.4	-12			1843	-0.5	-15	
4 Sa	0407	0.2	6		19 Su	0032	0.5	15		4 Tu	0203	0.4	12		19 W	0235	0.6	18		4 W	0132	0.5	15		19 Th	0201	0.8	24	
	1143	1.0	30			0436	0.1	3			0446	0.3	9			0606	0.3	9			0429	0.4	12			0610	0.4	12	
	1815	0.0	0			1137	1.2	37			1105	1.0	30			1249	1.1	34			1020	1.0	30			1241	1.0	30	
						1842	-0.5	-15			1857	-0.5	-15			2005	-0.7	-21			1815	-0.5	-15			1928	-0.4	-12	
5 Su	0109	0.4	12		20 M	0147	0.5	15		5 W	0253	0.4	12		20 Th	0326	0.6	18		5 Th	0206	0.5	15		20 F	0243	0.7	21	
	0442	0.3	9			0523	0.3	9			0528	0.3	9			0651	0.3	9			0519	0.4	12			0654	0.4	12	
	1152	1.1	34			1217	1.3	40			1139	1.1	34			1333	1.1	34			1113	1.1	34			1329	1.0	30	
	1855	-0.1	-3			1936	-0.6	-18			1940	-0.6	-18			2049	-0.6	-18			1900	-0.6	-18			2007	-0.3	-9	
6 M	0219	0.5	15		21 Tu	0255	0.6	18		6 Th	0338	0.4	12		21 F	0415	0.5	15		6 F	0238	0.5	15		21 Sa	0322	0.7	21	
	0516	0.3	9			0608	0.3	9			0614	0.3	9			0733	0.3	9			0611	0.3	9			0736	0.3	9	
	1158	1.1	34			1256	1.3	40			1220	1.2	37			1413	1.0	30			1207	1.1	34			1416	0.9	27	
	1934	-0.3	-9			2026	-0.7	-21			2023	-0.7	-21			2128	-0.5	-15			1944	-0.6	-18			2041	-0.2	-6	
7 Tu	0324	0.5	15		22 W	0357	0.6	18		7 F	0419	0.4	12		22 Sa	0500	0.5	15		7 Sa	0308	0.6	18		22 Su	0356	0.7	21	
	0551	0.4	12			0652	0.4	12			0703	0.3	9			0816	0.3	9			0705	0.2	6			0818	0.3	9	
	1212	1.2	37			1335	1.2	37			1305	1.2	37			1450	0.9	27			1302	1.1	34			1503	0.8	24	
	2014	-0.4	-12			2114	-0.7	-21			2106	-0.7	-21			2203	-0.4	-12			2028	-0.6	-18			2111	-0.1	-3	
8 W	1237	1.3	40		23 Th	0457	0.6	18		8 Sa	0457	0.5	15		23 Su	0543	0.5	15		8 Su	0338	0.6	18		23 M	0427	0.6	18	
	2056	-0.6	-18			0735	0.5	15			0757	0.3	9			0900	0.3	9			0802	0.2	6			0901	0.2	6	
						1411	1.2	37			1353	1.2	37			1522	0.8	24			1401	1.1	34			1554	0.7	21	
						2159	-0.7	-21			2150	-0.7	-21			2235	-0.3	-9			2111	-0.5	-15			2139	0.1	3	
9 Th	1312	1.3	40		24 F	0554	0.6	18		9 Su	0533	0.5	15		24 M	0622	0.5	15		9 M	0410	0.7	21		24 Tu	0450	0.6	18	
	2139	-0.6	-18			0817	0.5	15			0858	0.3	9			0948	0.3	9			0902	0.1	3			0945	0.2	6	
						1443	1.1	34			1446	1.1	34			1549	0.7	21			1505	1.0	30			1655	0.7	21	
						2241	-0.6	-18			2234	-0.7	-21			2304	-0.2	-6			2156	-0.4	-12			2207	0.2	6	
10 F	1352	1.3	40		25 Sa	0648	0.6	18		10 M	0610	0.6	18		25 Tu	0657	0.5	15		10 Tu	0445	0.7	21		25 W	0457	0.6	18	
	2223	-0.7	-21			0902	0.5	15			1004	0.2	6			1041	0.3	9			1006	0.0	0			1032	0.1	3	
						1508	1.0	30			1546	1.0	30			1614	0.6	18			1620	0.9	27			1812	0.6	18	
						2319	-0.5	-15			2320	-0.6	-18			2334	-0.1	-3			2242	-0.2	-6			2237	0.3	9	
11 Sa	1438	1.3	40		26 Su	0736	0.6	18		11 Tu	0647	0.6	18		26 W	0727	0.5	15		11 W	0524	0.8	24		26 Th	0349	0.6	18	
	2308	-0.7	-21			0954	0.5	15			1117	0.2	6			1141	0.2	6			1114	-0.1	-3			1122	0.1	3	
						1526	0.9	27			1659	0.8	24			1714	0.5	15			1750	0.8	24			1940	0.6	18	
						2354	-0.4	-12														2331	-0.1	-3			2309	0.4	12
12 Su	0739	0.7	21		27 M	0817	0.6	18		12 W	0007	-0.5	-15		27 Th	0006	0.0	0		12 Th	0608	0.9	27		27 F	0345	0.7	21	
	0958	0.6	18			1055	0.5	15			0726	0.7	21			0750	0.5	15			1224	-0.2	-6			1216	0.0	0	
	1529	1.2	37			1544	0.8	24			1234	0.1	3			1245	0.1	3			1928	0.7	21			2105	0.6	18	
	2354	-0.7	-21								1836	0.7	21			2011	0.4	12								2346	0.5	15	
13 M	0811	0.7	21		28 Tu	0026	-0.3	-9		13 Th	0055	-0.3	-9		28 F	0041	0.1	3		13 F	0024	0.1	3		28 Sa	0413	0.8	24	
	1117	0.6	18			0852	0.6	18			0807	0.8	24			0801	0.5	15			0658	0.9	27			1312	-0.1	-3	
	1627	1.1	34			1206	0.5	15			1353	-0.1	-3			1350	0.1	3			1336	-0.3	-9			2218	0.6	18	
						1610	0.6	18			2026	0.6	18			2147	0.4	12			2059	0.7	21						
14 Tu	0040	-0.6	-18		29 W	0059	-0.2	-6		14 F	0146	-0.1	-3		29 Sa	0120	0.2	6		14 Sa	0122	0.2	6		29 Su	0032	0.5	15	
	0842	0.8	24			0921	0.6	18			0852	0.9	27			0737	0.6	18			0754	1.0	30			0456	0.8	24	

Amuay, Venezuela, 2020

Times and Heights of High and Low Waters

April				May				June							
Time	Height			Time	Height			Time	Height			Time	Height		
h m	ft	cm		h m	ft	cm		h m	ft	cm		h m	ft	cm	
1 W	0025 0325 0823 1645	0.7 0.6 1.0 -0.4	21 18 30 -12	16 Th	0042 0524 1131 1758	1.0 0.5 1.0 -0.2	30 15 30 -6	1 F	0006 0420 0913 1649	1.0 0.7 1.0 -0.2	30 21 30 -6	16 Sa	0037 0615 1215 1737	1.2 0.5 0.8 0.2	37 15 24 6
2 Th	0051 0422 0941 1732	0.8 0.6 1.0 -0.4	24 18 30 -12	17 F	0121 0613 1228 1837	1.0 0.5 1.0 -0.1	30 15 30 -3	2 Sa	0025 0519 1046 1734	1.1 0.5 1.0 -0.2	34 15 30 -6	17 Su	0105 0657 1320 1809	1.2 0.4 0.8 0.3	37 12 24 9
3 F	0115 0517 1053 1817	0.8 0.4 1.1 -0.4	24 12 34 -12	18 Sa	0155 0657 1324 1911	1.0 0.4 0.9 0.0	30 12 27 0	3 Su	0046 0616 1211 1818	1.1 0.3 1.0 0.0	34 9 30 0	18 M	0128 0735 1425 1839	1.2 0.2 0.8 0.4	37 6 24 12
4 Sa	0139 0612 1201 1901	0.8 0.3 1.1 -0.3	24 9 34 -9	19 Su	0225 0739 1420 1941	1.0 0.3 0.9 0.2	30 9 27 6	4 M	0109 0712 1333 1902	1.2 0.1 0.9 0.1	37 3 27 3	19 Tu	0142 0812 1533 1908	1.2 0.1 0.8 0.6	37 3 24 18
5 Su	0203 0708 1309 1945	0.9 0.2 1.1 -0.2	27 6 34 -6	20 M	0249 0819 1519 2010	0.9 0.2 0.8 0.3	27 6 24 9	5 Tu	0136 0808 1454 1946	1.3 -0.1 0.9 0.3	40 -3 27 9	20 W	0139 0849 1645 1936	1.2 0.0 0.8 0.7	37 0 24 21
6 M	0230 0806 1421 2029	1.0 0.0 1.0 -0.1	30 0 30 -3	21 Tu	0303 0859 1624 2037	0.9 0.1 0.8 0.5	27 3 24 15	6 W	0206 0904 1616 2033	1.4 -0.3 0.9 0.5	43 -9 27 15	21 Th	0118 0926	1.2 -0.1	37 -3
7 Tu	0300 0905 1539 2115	1.0 -0.1 0.9 0.1	30 -3 27 3	22 W	0250 0939 1738 2105	0.9 0.1 0.7 0.6	27 3 21 18	7 Th	0240 1001 1738 2122	1.4 -0.4 0.9 0.6	43 -12 27 18	22 F	0119 1006	1.2 -0.2	37 -6
8 W	0334 1005 1704 2203	1.1 -0.2 0.9 0.2	34 -6 27 6	23 Th	0211 1021 1859 2133	0.9 0.0 0.8 0.7	27 0 24 21	8 F	0316 1058 1856 2218	1.4 -0.5 1.0 0.8	43 -15 30 24	23 Sa	0139 1047	1.3 -0.2	40 -6
9 Th	0412 1107 1832 2255	1.1 -0.3 0.9 0.4	34 -9 27 12	24 F	0216 1105	1.0 -0.1	30 -3	9 Sa	0357 1156 2008 2321	1.4 -0.5 1.1 0.9	43 -15 34 27	24 Su	0211 1131	1.3 -0.3	40 -9
10 F	0455 1211 1956 2353	1.1 -0.4 0.9 0.6	34 -12 27 18	25 Sa	0240 1153	1.1 -0.1	34 -3	10 Su	0445 1255 2110	1.3 -0.5 1.1	40 -15 34	25 M	0250 1217	1.4 -0.3	43 -9
11 Sa	0547 1316 2112	1.1 -0.5 0.9	34 -15 27	26 Su	0315 1242	1.1 -0.2	34 -6	11 M	0033 0544 1352 2204	0.9 1.2 -0.4 1.2	27 37 -12 37	26 Tu	0338 1305 2229	1.3 -0.3 1.1	40 -9 34
12 Su	0059 0651 1421 2217	0.6 1.1 -0.5 1.0	18 34 -15 30	27 M	0402 1334	1.1 -0.2	34 -6	12 Tu	0153 0706 1447 2249	0.9 1.1 -0.3 1.2	27 34 -9 37	27 W	0032 0436 1352 2244	1.0 1.3 -0.3 1.1	30 40 -9 34
13 M	0211 0806 1523 2312	0.7 1.1 -0.4 1.0	21 34 -12 30	28 Tu	0500 1425 2327	1.1 -0.3 1.0	34 -9 30	13 W	0314 0837 1537 2330	0.8 1.0 -0.2 1.2	24 30 -6 37	28 Th	0156 0546 1439 2301	1.0 1.2 -0.3 1.1	30 37 -9 34
14 Tu	0323 0920 1620	0.7 1.0 -0.4	21 30 -12	29 W	0209 0613 1515 2347	0.9 1.1 -0.3 1.0	27 34 -9 30	14 Th	0426 0957 1622	0.7 1.0 -0.1	21 30 -3	29 F	0312 0716 1524 2318	0.8 1.0 -0.2 1.2	24 30 -6 37
15 W	0000 0428 1029 1712	1.0 0.6 1.0 -0.3	30 18 30 -9	30 Th	0317 0738 1603	0.8 1.1 -0.3	24 34 -9	15 F	0006 0526 1109 1702	1.2 0.6 0.9 0.0	37 18 27 0	30 Sa	0420 0911 1609 2338	0.6 0.9 -0.1 1.3	18 27 -3 40
				31 Su				15 M	0522 1108 1654	0.4 0.8 0.1	12 24 3	15 Tu	0014 0644 1319 1710	1.3 0.3 0.7 0.4	40 9 21 12

Time meridian 67° 30' W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to the chart datum of soundings.

Amuay, Venezuela, 2020

Times and Heights of High and Low Waters

July				August				September						
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height	
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm
1 W	0712	-0.3	-9		16 Th	0722	-0.1	-3		1 Sa	0059	1.6	49	
	1432	0.8	24			1526	0.8	24			0840	-0.4	-12	
	1753	0.6	18			1734	0.7	21			1627	1.0	30	
						2347	1.4	43			1922	0.9	27	
2 Th	0030	1.6	49		17 F	0759	-0.2	-6		2 Su	0141	1.6	49	
	0804	-0.5	-15			0925	-0.4	-12			0840	-0.2	-6	
	1542	0.9	27			1718	1.1	34			1642	1.0	30	
	1841	0.7	21			2012	0.9	27			1943	0.9	27	
3 F	0106	1.7	52		18 Sa	0009	1.5	46		3 M	0220	1.5	46	
	0854	-0.5	-15			0837	-0.3	-9			1008	-0.3	-9	
	1648	1.0	30				1807	1.1	34			1712	1.1	34
	1930	0.8	24			2104	0.9	27			2042	0.8	24	
4 Sa	0144	1.6	49		19 Su	0041	1.5	46		4 Tu	0256	1.4	43	
	0943	-0.6	-18			0916	-0.3	-9			1047	-0.2	-6	
	1749	1.0	30				1852	1.1	34			1741	1.1	34
	2021	0.9	27			2201	0.9	27			2146	0.8	24	
5 Su	0222	1.6	49		20 M	0119	1.5	46		5 W	0326	1.3	40	
	1031	-0.5	-15			0956	-0.4	-12			1123	0.0	0	
	1846	1.0	30				2303	0.9	27			1043	0.0	0
	2117	0.9	27							1810	1.2	37		
6 M	0259	1.5	46		21 Tu	0203	1.5	46		6 Th	0349	1.1	34	
	1117	-0.4	-12			1038	-0.4	-12			1157	0.1	3	
	1938	1.1	34			1916	1.0	30			2009	1.1	34	
	2218	1.0	30			2141	0.9	27						
7 Tu	0333	1.3	40		22 W	0251	1.4	43		7 F	0013	0.8	24	
	1201	-0.3	-9			1120	-0.3	-9			0413	1.0	30	
	2024	1.1	34			1943	1.0	30			1229	0.3	9	
	2328	1.0	30			2256	0.9	27			2041	1.1	34	
8 W	0403	1.2	37		23 Th	0345	1.3	40		8 Sa	0129	0.7	21	
	1242	-0.2	-6			1203	-0.2	-6			0717	0.8	24	
	2104	1.1	34			2008	1.1	34			1302	0.4	12	
										2109	1.1	34		
9 Th	0047	0.9	27		24 F	0016	0.8	24		9 Su	0245	0.6	18	
	0429	1.0	30			0453	1.1	34			0927	0.8	24	
	1320	0.0	0			1246	-0.1	-3			1337	0.5	15	
	2139	1.1	34			2035	1.2	37			2132	1.2	37	
10 F	0214	0.8	24		25 Sa	0137	0.6	18		10 M	0350	0.5	15	
	0500	0.9	27			0632	1.0	30			1058	0.8	24	
	1356	0.1	3			1332	0.1	3			1415	0.6	18	
	2209	1.2	37			2104	1.3	40			2150	1.2	37	
11 Sa	0346	0.6	18		26 Su	0256	0.4	12		11 Tu	0440	0.3	9	
	0906	0.7	21			0858	0.8	24			1212	0.8	24	
	1431	0.2	6			1418	0.2	6			1457	0.7	21	
	2236	1.2	37			2137	1.4	43			2202	1.3	40	
12 Su	0455	0.5	15		27 M	0407	0.2	6		12 W	0522	0.2	6	
	1045	0.7	21			1049	0.8	24			1313	0.9	27	
	1507	0.4	12			1507	0.4	12			1542	0.8	24	
	2259	1.2	37			2213	1.5	46			2214	1.3	40	
13 M	0536	0.3	9		28 Tu	0511	0.0	0		13 Th	0602	0.1	3	
	1207	0.7	21			1215	0.9	27			1406	0.9	27	
	1542	0.5	15			1558	0.6	18			1628	0.8	24	
	2318	1.3	40			2252	1.6	49			2237	1.4	43	
14 Tu	0611	0.2	6		29 W	0609	-0.2	-6		14 F	0641	-0.1	-3	
	1319	0.7	21			1329	0.9	27			1452	1.0	30	
	1619	0.6	18			1649	0.7	21			1714	0.9	27	
	2330	1.3	40			2333	1.6	49			2310	1.5	46	
15 W	0646	0.0	0		30 Th	0702	-0.4	-12		15 Sa	0721	-0.1	-3	
	1425	0.8	24			1433	1.0	30			1533	1.0	30	
	1657	0.7	21			1741	0.8	24			1800	0.9	27	
	2336	1.3	40							2349	1.6	49		
					31 F	0016	1.7	52		31 M	0145	1.5	46	
				0752		-0.4	-12		0856		-0.1	-3		
				1532		1.0	30		1631		1.2	37		
						1832	0.9	27			2013	0.9	27	

Time meridian 67° 30' W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Amuay, Venezuela, 2020

Times and Heights of High and Low Waters

October					November					December																			
Time		Height			Time		Height			Time		Height			Time		Height												
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm										
1 Th	0343	1.2	37		16 F	0303	1.3	40		1 Su	1419	1.4	43		16 M	0627	1.1	34		1 Tu	1406	1.5	46		16 W	0731	1.0	30	
	0911	0.6	18			0837	0.5	15			2307	0.3	9			0934	0.9	27			2327	-0.1	-3			1005	0.9	27	
	1630	1.3	40			1503	1.7	52								1535	1.8	55								1558	1.5	46	
	2151	0.7	21			2145	0.2	6								2335	-0.3	-9											
2 F	0451	1.1	34		17 Sa	0432	1.2	37		2 M	1434	1.5	46		17 Tu	0742	1.2	37		2 W	1440	1.5	46		17 Th	0012	-0.6	-18	
	0937	0.7	21			0922	0.7	21			2352	0.2	6			1033	1.1	34								0827	1.0	30	
	1642	1.3	40			1537	1.7	52								1622	1.7	52								1114	0.9	27	
	2238	0.6	18			2245	0.1	3																		1648	1.3	40	
3 Sa	0614	1.1	34		18 Su	0604	1.2	37		3 Tu	1504	1.5	46		18 W	0033	-0.4	-12		3 Th	0010	-0.2	-6		18 F	0103	-0.5	-15	
	1002	0.9	27			1010	0.9	27								0848	1.3	40								0916	1.0	30	
	1610	1.3	40			1617	1.8	55								1142	1.1	34								1232	0.9	27	
	2327	0.6	18			2348	0.0	0								1718	1.6	49								1748	1.2	37	

Time meridian 67° 30' W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Punta Gorda, Venezuela, 2020

Times and Heights of High and Low Waters

January				February				March															
	Time		Height		Time		Height		Time		Height		Time		Height								
	h	m			ft	cm			h	m			ft	cm		h	m	ft	cm				
1 W	0306	0.3	9	16 Th	0308	-0.4	-12	1 Sa	0352	0.8	24	16 Su	0442	0.5	15	1 Su	0259	0.8	24	16 M	0416	0.9	27
	0840	5.4	165		0859	6.1	186		0920	5.2	158		1023	5.5	168		0834	5.5	168		0949	5.4	165
	1526	1.2	37		1543	0.1	3		1626	0.8	24		1728	-0.1	-3		1529	0.4	12		1659	-0.1	-3
	2050	5.5	168		2115	5.8	177		2153	4.8	146		2312	4.6	140		2112	4.9	149		2247	4.6	140
2 Th	0355	0.7	21	17 F	0406	0.0	0	2 Su	0449	1.1	34	17 M	0551	0.9	27	2 M	0350	1.2	37	17 Tu	0527	1.2	37
	0926	5.3	162		0956	5.9	180		1011	5.1	155		1135	5.2	158		0922	5.2	158		1102	5.0	152
	1623	1.3	40		1648	0.2	6		1732	0.8	24		1837	-0.1	-3		1636	0.6	18		1809	0.1	3
	2144	5.2	158		2221	5.3	162		2258	4.5	137		2212	4.5	137		2212	4.5	137				
3 F	0449	1.0	30	18 Sa	0511	0.4	12	3 M	0555	1.3	40	18 Tu	0038	4.4	134	3 Tu	0504	1.5	46	18 W	0014	4.4	134
	1018	5.2	158		1100	5.7	174		1112	5.0	152		0702	0.9	27		1022	5.0	152		0639	1.2	37
	1724	1.3	40		1756	0.1	3		1840	0.6	18		1253	5.2	158		1755	0.6	18		1226	4.9	149
	2247	4.9	149		2338	5.0	152						1943	-0.3	-9		2329	4.3	131		1917	0.1	3
4 Sa	0548	1.1	34	19 Su	0618	0.6	18	4 Tu	0014	4.4	134	19 W	0200	4.6	140	4 W	0624	1.5	46	19 Th	0138	4.5	137
	1115	5.2	158		1209	5.7	174		0702	1.3	40		0806	0.8	24		1136	4.9	149		0745	1.0	30
	1827	1.1	34		1903	-0.1	-3		1221	5.0	152		1405	5.3	162		1908	0.4	12		1345	5.0	152
	2357	4.8	146						1944	0.3	9		2042	-0.5	-15						2016	-0.1	-3
5 Su	0646	1.2	37	20 M	0059	4.9	149	5 W	0130	4.5	137	20 Th	0304	4.8	146	5 Th	0053	4.4	134	20 F	0241	4.8	146
	1216	5.3	162		0724	0.7	21		0803	1.1	34		0902	0.5	15		0733	1.2	37		0841	0.6	18
	1925	0.7	21		1318	5.7	174		1329	5.3	162		1503	5.6	171		1255	5.1	155		1445	5.3	162
					2005	-0.4	-12		2040	-0.2	-6		2133	-0.8	-24		2011	-0.1	-3		2107	-0.4	-12
6 M	0107	4.8	146	21 Tu	0213	5.0	152	6 Th	0234	4.8	146	21 F	0350	5.1	155	6 F	0206	4.8	146	21 Sa	0324	5.2	158
	0743	1.1	34		0824	0.6	18		0857	0.7	21		0950	0.2	6		0833	0.7	21		0928	0.2	6
	1314	5.5	168		1421	5.9	180		1429	5.7	174		1550	5.8	177		1406	5.5	168		1531	5.7	174
	2019	0.3	9		2101	-0.7	-21		2131	-0.7	-21		2218	-1.0	-30		2105	-0.6	-18		2151	-0.6	-18
7 Tu	0209	5.0	152	22 W	0314	5.2	158	7 F	0327	5.3	162	22 Sa	0427	5.4	165	7 Sa	0303	5.4	165	22 Su	0358	5.5	168
	0834	1.0	30		0918	0.4	12		0946	0.3	9		1033	-0.1	-3		0925	0.1	3		1010	-0.1	-3
	1407	5.8	177		1515	6.1	186		1523	6.1	186		1629	6.0	183		1505	6.1	186		1609	5.9	180
	2109	-0.1	-3		2151	-1.0	-30		2217	-1.1	-34		2258	-1.1	-34		2154	-1.1	-34		2231	-0.7	-21
8 W	0302	5.3	162	23 Th	0403	5.4	165	8 Sa	0414	5.7	174	23 Su	0458	5.5	168	8 Su	0351	6.0	183	23 M	0428	5.7	174
	0922	0.8	24		1007	0.2	6		1032	-0.1	-3		1112	-0.3	-9		1013	-0.5	-15		1048	-0.4	-12
	1456	6.1	186		1601	6.3	192		1611	6.6	201		1703	6.1	186		1557	6.6	201		1643	6.1	186
	2154	-0.5	-15		2237	-1.2	-37		2301	-1.5	-46		2335	-1.1	-34		2239	-1.4	-43		2307	-0.7	-21
9 Th	0348	5.6	171	24 F	0444	5.5	168	9 Su	0456	6.1	186	24 M	0527	5.7	174	9 M	0434	6.5	198	24 Tu	0455	5.9	180
	1007	0.6	18		1051	0.1	3		1117	-0.5	-15		1148	-0.4	-12		1058	-1.0	-30		1124	-0.6	-18
	1541	6.5	198		1642	6.4	195		1657	6.9	210		1735	6.2	189		1645	6.9	210		1713	6.1	186
	2238	-0.9	-27		2319	-1.2	-37		2344	-1.7	-52						2322	-1.6	-49		2342	-0.5	-15
10 F	0431	5.8	177	25 Sa	0520	5.6	171	10 M	0538	6.4	195	25 Tu	0010	-0.9	-27	10 Tu	0516	6.8	207	25 W	0522	6.1	186
	1050	0.3	9		1132	0.0	0		1201	-0.8	-24		0554	5.8	177		1143	-1.4	-43		1157	-0.6	-18
	1624	6.7	204		1719	6.4	195		1742	7.0	213		1223	-0.4	-12		1730	7.0	213		1743	6.2	189
	2320	-1.1	-34		2358	-1.1	-34						1805	6.2	189								
11 Sa	0513	6.1	186	26 Su	0552	5.7	174	11 Tu	0026	-1.7	-52	26 W	0044	-0.7	-21	11 W	0005	-1.6	-49	26 Th	0014	-0.3	-9
	1132	0.2	6		1210	0.0	0		0619	6.6	201		0621	5.8	177		0556	7.0	213		0548	6.1	186
	1707	7.0	213		1753	6.3	192		1246	-1.0	-30		1256	-0.3	-9		1227	-1.6	-49		1229	-0.6	-18
									1827	6.9	210		1836	6.1	186		1815	7.0	213		1813	6.1	186
12 Su	0002	-1.3	-40	27 M	0036	-1.0	-30	12 W	0110	-1.5	-46	27 Th	0116	-0.4	-12	12 Th	0048	-1.3	-40	27 F	0045	-0.1	-3
	0554	6.2	189		0622	5.7	174		0701	6.6	201		0649	5.9	180		0637	7.0	213		0615	6.2	189
	1215	0.0	0		1247	0.1	3		1333	-1.0	-30		1329	-0.2	-6		1313	-1.5	-46		1300	-0.5	-15
	1751	7.0	213		1826	6.2	189		1914	6.6	201		1908	5.9	180		1900	6.7	204		1844	6.0	183
13 M	0044	-1.3	-40	28 Tu	0112	-0.7	-21	13 Th	0155	-1.1	-34	28 F	0148	-0.1	-3	13 F	0132	-0.9	-27	28 Sa	0116	0.3	9
	0636	6.3	192		0653	5.7	174		0744	6.5	198		0720	5.8	177		0718	6.8	207		0645	6.1	186
	1300	0.0	0		1324	0.2	6		1423	-0.8	-24		1403	-0.1	-3		1401	-1.3	-40		1332	-0.3	-9
	1836	6.9	210		1859	6.1	186		2003	6.2	189		1944	5.6	171		1947	6.2	189		1918	5.8	177
14 Tu	0129	-1.1	-34	29 W	0148	-0.4	-12	14 F	0244	-0.6	-18	29 Sa	0221	0.4	12	14 Sa	0220	-0.3	-9	29 Su	0146	0.6	18
	0720	6.3	192		0724	5.6	171		0831	6.3	192		0754	5.7	174		0802	6.4	195		0719	6.0	183
	1349	0.0	0		1401	0.3	9		1518	-0.6	-18		1441	0.2	6		1454	-0.9	-27		1406	-0.1	-3
	1924	6.7	204		1935	5.8	177		2056	5.6	171		2024	5.3	162		2038	5.6	171		1957	5.5	168
15 W	0216	-0.8	-24	30 Th	0226	-0.1	-3	15 Sa	0338	0.0	0	31 Su	0313	0.3	9	15 Su	0313	0.3	9	30 M	0221	1.0	30
	0807	6.3	192		0758	5.5	168		0923	5.9	180		0851	5.9	180		0851	5.9	180		0759	5.8	177
	1443	0.1	3		1442	0.5	15		1620	-0.3	-9		1553	-0.4	-12		1553	-0.4	-12		1450	0.2	6
	2016	6.3	192		2014	5.5	168		2158	5.1	155		2136	5.0	152		2136	5.0	152		2044	5.2	158
			31 F	0306	0.3	9										31 Tu	0310	1.4	43				
				0836	5.4	165											0847	5.5	168				
				1529	0.6	18											1554	0.5	15				
				2059	5.1	155											2143	4.8	146				

Time meridian 67° 30' W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Punta Gorda, Venezuela, 2020

Times and Heights of High and Low Waters

April				May				June																					
Time	Height			Time	Height			Time	Height			Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm										
1 W ○	0427	1.6	49		16 Th	0611	1.4	43		1 F	0529	1.5	46		16 Sa	0001	5.0	152		1 M	0029	6.1	186		16 Tu	0050	5.5	168	
	0947	5.2	158			1152	4.8	146			1041	5.3	162			0639	1.2	37			0718	0.2	6			0746	0.6	18	
	1716	0.6	18			1843	0.4	12			1800	0.5	15			1223	4.9	149			1258	5.6	171			1336	5.0	152	
	2258	4.7	143								2352	5.3	162			1900	0.7	21			1935	0.3	9			1959	1.0	30	
2 Th	0553	1.6	49		17 F	0057	4.7	143		2 Sa	0640	1.1	34		17 Su	0100	5.2	158		2 Tu	0130	6.5	198		17 W	0139	5.8	177	
	1103	5.1	155			0716	1.2	37			1204	5.4	165			0735	0.9	27			0815	-0.4	-12			0835	0.3	9	
	1833	0.5	15			1311	4.9	149			1907	0.2	6			1329	5.1	155			1406	5.8	177			1430	5.2	158	
				1942	0.3	9							1952	0.6	18		2032	0.2	6		2047	1.0	30						
3 F	0021	4.8	146		18 Sa	0158	5.0	152		3 Su	0102	5.7	174		18 M	0149	5.5	168		3 W	0225	6.8	207		18 Th	0224	6.0	183	
	0706	1.2	37			0812	0.7	21			0743	0.4	12			0825	0.4	12			0908	-0.9	-27			0920	-0.1	-3	
	1228	5.2	158			1414	5.2	158			1321	5.7	174			1423	5.3	162			1506	6.1	186			1517	5.5	168	
	1939	0.1	3			2033	0.1	3			2005	-0.1	-3			2040	0.5	15			2124	0.1	3			2132	1.0	30	
4 Sa	0135	5.2	158		19 Su	0243	5.4	165		4 M	0202	6.2	189		19 Tu	0231	5.8	177		4 Th	0315	7.1	216		19 F	0305	6.2	189	
	0808	0.6	18			0859	0.3	9			0839	-0.3	-9			0909	0.0	0			0958	-1.4	-43			1002	-0.3	-9	
	1344	5.6	171			1502	5.5	168			1426	6.1	186			1508	5.5	168			1559	6.3	192			1558	5.2	174	
	2036	-0.4	-12			2118	0.0	0			2059	-0.3	-9			2123	0.5	15			2214	0.1	3			2214	0.9	27	
5 Su	0234	5.8	177		20 M	0319	5.7	174		5 Tu	0254	6.7	204		20 W	0308	6.0	183		5 F	0402	7.2	219		20 Sa	0344	6.4	195	
	0902	-0.1	-3			0942	-0.1	-3			0930	-0.9	-27			0951	-0.3	-9			1046	-1.6	-49			1043	-0.5	-15	
	1446	6.1	186			1542	5.8	177			1522	6.4	195			1548	5.7	174			1648	6.4	195			1637	5.8	177	
	2127	-0.8	-24			2159	-0.1	-3			2148	-0.5	-15			2204	0.5	15			2301	0.2	6			2255	0.9	27	
6 M	0324	6.4	195		21 Tu	0350	5.9	180		6 W	0340	7.1	216		21 Th	0342	6.2	189		6 Sa	0446	7.2	219		21 Su	0422	6.6	201	
	0952	-0.8	-24			1021	-0.4	-12			1017	-1.4	-43			1029	-0.5	-15			1132	-1.6	-49			1122	-0.7	-21	
	1540	6.6	201			1617	6.0	183			1613	6.7	204			1624	5.9	180			1733	6.4	195			1715	6.0	183	
	2214	-1.1	-34			2236	-0.1	-3			2235	-0.5	-15			2242	0.6	18			2348	0.3	9			2334	0.9	27	
7 Tu	0408	6.9	210		22 W	0419	6.2	189		7 Th	0424	7.4	226		22 F	0414	6.4	195		7 Su	0529	7.1	216		22 M	0500	6.7	204	
	1038	-1.3	-40			1057	-0.6	-18			1104	-1.7	-52			1106	-0.6	-18			1218	-1.4	-43			1201	-0.7	-21	
	1629	6.9	210			1649	6.1	186			1701	6.8	207			1658	6.0	183			1817	6.3	192			1753	6.1	186	
	2258	-1.2	-37			2312	0.0	0			2320	-0.4	-12			2319	0.7	21											
8 W	0450	7.2	219		23 Th	0447	6.3	192		8 F	0506	7.4	226		23 Sa	0446	6.5	198		8 M	0033	0.5	15		23 Tu	0014	0.9	27	
	1123	-1.7	-53			1131	-0.7	-21			1149	-1.8	-55			1142	-0.6	-18			0611	6.9	210			0540	6.8	207	
	1716	7.0	213			1720	6.1	186			1746	6.7	204			1732	6.0	183			1303	-1.1	-34			1240	-0.7	-21	
	2342	-1.1	-34			2345	0.2	6								2354	0.8	24			1859	6.1	186			1832	6.2	189	
9 Th	0531	7.3	223		24 F	0515	6.4	195		9 Sa	0005	-0.1	-3		24 Su	0519	6.6	201		9 Tu	0120	0.8	24		24 W	0056	0.9	27	
	1208	-1.8	-55			1204	-0.6	-18			0548	7.3	223			1217	-0.6	-18			0653	6.5	198			0622	6.7	204	
	1800	6.9	210			1751	6.1	186			1235	-1.6	-49			1807	6.0	183			1349	-0.7	-21			1322	-0.6	-18	
											1831	6.5	198								1942	5.8	177			1915	6.2	189	
10 F	0026	-0.8	-24		25 Sa	0018	0.4	12		10 Su	0051	0.2	6		25 M	0030	1.0	30		10 W	0208	1.1	34		25 Th	0143	0.9	27	
	0611	7.3	223			0544	6.4	195			0630	7.0	213			0554	6.6	201			0737	6.1	186			0709	6.6	201	
	1253	-1.7	-52			1236	-0.5	-15			1321	-1.3	-40			1254	-0.5	-15			1436	-0.3	-9			1407	-0.4	-12	
	1845	6.7	204			1823	6.0	183			1916	6.2	189			1845	6.0	183			2026	5.6	171			2002	6.2	189	
11 Sa	0111	-0.3	-9		26 Su	0049	0.7	21		11 M	0139	0.6	18		26 Tu	0108	1.1	34		11 Th	0300	1.3	40		26 F	0236	0.9	27	
	0653	7.0	213			0616	6.4	195			0713	6.6	201			0634	6.5	198			0824	5.7	174			0800	6.3	192	
	1341	-1.4	-43			1309	-0.4	-12			1410	-0.8	-24			1334	-0.3	-9			1526	0.2	6			1458	-0.1	-3	
	1931	6.2	189			1859	5.9	180			2002	5.8	177			1927	5.9	180			2113	5.4	165			2053	6.2	189	
12 Su	0158	0.2	6		27 M	0122	1.0	30		12 Tu	0230	1.0	30		27 W	0152	1.3	40		12 F	0355	1.4	43		27 Sa	0336	0.9	27	
	0736	6.5	198			0652	6.3	192			0759	6.1	186			0719	6.3	192			0917	5.4	165			0858	6.0	183	
	1431	-0.9	-27			1346	-0.2	-6			1503	-0.3	-9			1421	-0.1	-3			1620	0.5	15			1555	0.2	6	
	2020	5.7	174			1939	5.7	174			2053	5.4	165			2015	5.8	177			2205	5.3	162			2150	6.2	189	
13 M	0251	0.8	24		28 Tu	0201	1.3	40		13 W	0328	1.4	43		28 Th	0248	1.4	43		13 Sa	0455	1.4	43		28 Su	0441	0.8	24	
	0823	6.0	183			0734	6.1	186			0852	5.6	171			0810	6.1	186			1018	5.1	155			1005	5.6	171	
	1528	-0.4	-12			1431	0.1	3			1600	0.2	6			1516	0.1	3			1715	0.8	24			1659	0.5	15	
	2115	5.2	158			2027	5.4	165			2150	5.1	155			2111	5.7	174			2300	5.3	162			2251	6.2	189	
14 Tu	0352	1.2	37		29 W	0254	1.5	46		14 Th	0431																		

Punta Gorda, Venezuela, 2020

Times and Heights of High and Low Waters

July				August				September											
Time		Height		Time		Height		Time		Height		Time		Height					
h	m	ft	cm	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm				
1	W	0100	6.5	198	16	Th	0046	5.7	174	1	Sa	0242	6.6	201	16	Su	0204	6.2	189
		0753	-0.3	-9			0759	0.6	18			0926	-0.6	-18			0911	0.2	6
		1349	5.5	168			1350	5.0	152			1541	5.9	180			1509	5.8	177
		2009	0.7	21			2012	1.5	46			2143	0.9	27			2126	1.3	40
2	Th	0200	6.7	204	17	F	0141	5.9	180	2	Su	0334	6.8	207	17	M	0258	6.6	201
		0849	-0.8	-24			0850	0.2	6			1014	-0.8	-24			0957	-0.2	-6
		1453	5.8	177			1446	5.3	162			1627	6.1	186			1555	6.2	189
		2105	0.7	21			2103	1.4	43			2231	0.8	24			2212	0.9	27
3	F	0255	6.8	207	18	Sa	0232	6.1	186	3	M	0420	6.9	210	18	Tu	0347	7.0	213
		0941	-1.1	-34			0937	-0.1	-3			1059	-0.9	-27			1039	-0.6	-18
		1549	6.0	183			1534	5.6	171			1706	6.3	192			1636	6.7	204
		2157	0.6	18			2149	1.2	37			2314	0.7	21			2256	0.5	15
4	Sa	0345	7.0	213	19	Su	0319	6.4	195	4	Tu	0500	6.9	210	19	W	0432	7.3	223
		1030	-1.3	-40			1020	-0.4	-12			1140	-0.8	-24			1121	-0.7	-21
		1638	6.1	186			1617	5.9	180			1741	6.4	195			1716	7.1	216
		2246	0.6	18			2233	1.0	30			2356	0.6	18			2339	0.2	6
5	Su	0431	7.0	213	20	M	0403	6.7	204	5	W	0538	6.9	210	20	Th	0516	7.5	229
		1116	-1.3	-40			1102	-0.7	-21			1219	-0.6	-18			1201	-0.8	-24
		1721	6.2	189			1657	6.2	189			1813	6.4	195			1755	7.3	223
		2332	0.6	18			2316	0.8	24										
6	M	0514	6.9	210	21	Tu	0446	6.9	210	6	Th	0035	0.6	18	21	F	0023	0.0	0
		1200	-1.2	-37			1142	-0.8	-24			0613	6.7	204			0601	7.5	229
		1801	6.2	189			1737	6.4	195			1256	-0.4	-12			1243	-0.6	-18
							2358	0.6	18			1844	6.4	195			1835	7.5	229
7	Tu	0016	0.6	18	22	W	0529	7.1	216	7	F	0113	0.7	21	22	Sa	0108	-0.1	-3
		0554	6.8	207			1223	-0.8	-24			0647	6.6	201			0646	7.3	223
		1243	-0.9	-27			1817	6.6	201			1333	0.0	0			1326	-0.3	-9
		1839	6.1	186								1915	6.4	195			1917	7.5	229
8	W	0059	0.8	24	23	Th	0041	0.5	15	8	Sa	0152	0.8	24	23	Su	0157	-0.1	-3
		0634	6.6	201			0613	7.1	216			0723	6.3	192			0735	7.0	213
		1324	-0.6	-18			1304	-0.7	-21			1410	0.4	12			1412	0.2	6
		1916	6.0	183			1858	6.8	207			1948	6.3	192			2002	7.3	223
9	Th	0142	0.9	27	24	F	0128	0.4	12	9	Su	0234	1.0	30	24	M	0251	0.1	3
		0713	6.3	192			0659	6.9	210			0802	6.0	183			0827	6.5	198
		1406	-0.2	-6			1348	-0.5	-15			1449	0.9	27			1504	0.7	21
		1952	5.9	180			1942	6.8	207			2024	6.2	189			2052	7.0	213
10	F	0227	1.0	30	25	Sa	0218	0.4	12	10	M	0320	1.2	37	25	Tu	0351	0.3	9
		0754	6.0	183			0749	6.6	201			0846	5.7	174			0927	5.9	180
		1449	0.2	6			1436	-0.1	-3			1533	1.3	40			1605	1.3	40
		2031	5.8	177			2029	6.8	207			2105	6.1	186			2149	6.7	204
11	Sa	0316	1.2	37	26	Su	0314	0.4	12	11	Tu	0413	1.3	40	26	W	0457	0.5	15
		0839	5.6	171			0844	6.2	189			0937	5.3	162			1039	5.5	168
		1535	0.6	18			1529	0.3	9			1627	1.7	52			1715	1.7	52
		2113	5.7	174			2121	6.7	204			2153	5.9	180			2256	6.4	195
12	Su	0408	1.2	37	27	M	0416	0.4	12	12	W	0515	1.3	40	27	Th	0607	0.5	15
		0930	5.3	162			0946	5.8	177			1040	5.0	152			1203	5.3	162
		1625	1.0	30			1631	0.8	24			1730	2.0	61			1828	1.9	58
		2200	5.6	171			2220	6.5	198			2250	5.8	177					
13	M	0506	1.2	37	28	Tu	0522	0.4	12	13	Th	0621	1.2	37	28	F	0013	6.2	189
		1028	5.0	152			1058	5.4	165			1154	4.9	149			0714	0.4	12
		1721	1.3	40			1738	1.1	34			1837	2.1	64			1329	5.4	165
		2252	5.6	171			2325	6.4	195			2355	5.7	174			1936	1.8	55
14	Tu	0605	1.1	34	29	W	0629	0.2	6	14	F	0723	1.0	30	29	Sa	0128	6.3	192
		1135	4.9	149			1218	5.3	162			1310	5.0	152			0815	0.1	3
		1819	1.5	46			1846	1.3	40			1940	2.0	61			1438	5.7	174
		2348	5.6	171													2036	1.5	46
15	W	0704	0.9	27	30	Th	0034	6.3	192	15	Sa	0102	5.9	180	30	Su	0232	6.5	198
		1245	4.9	149			0733	-0.1	-3			0820	0.6	18			0908	-0.1	-3
		1917	1.6	49			1337	5.4	165			1416	5.3	162			1530	6.1	186
							1951	1.3	40			2036	1.7	52			2127	1.2	37
							31	F	0141	6.4	195				31	M	0324	6.8	207
							0832	-0.4	-12								0955	-0.3	-9
							1446	5.6	171								1610	6.4	195
							2050	1.1	34								2213	0.9	27

Time meridian 67° 30' W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Punta Gorda, Venezuela, 2020

Times and Heights of High and Low Waters

October				November				December																					
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 Th O	0424	7.0	213		16 F	1031	-0.2	-6		1 Su	1128	0.9	27		16 M	1139	0.3	9		1 Tu	1138	1.0	30		16 W	1210	0.3	9	
	1048	0.2	6			1624	8.2	250			1703	7.3	223			1725	8.2	250			1708	7.0	213			1753	7.4	226	
	1642	7.0	213			2258	-0.6	-18			2350	0.3	9																
	2307	0.5	15																										
2 F	0456	7.1	216		17 Sa	0447	7.8	238		2 M	0534	6.8	207		17 Tu	0011	-1.1	-34		2 W	0004	-0.1	-3		17 Th	0043	-1.2	-37	
	1122	0.3	9			1114	-0.2	-6			1200	1.1	34			0605	7.2	219			0549	6.3	192			0637	6.4	195	
	1708	7.2	219			1705	8.4	256			1731	7.3	223			1224	0.6	18			1212	1.2	37			1256	0.6	18	
	2342	0.4	12			2343	-0.8	-24								1808	7.9	241			1741	7.0	213			1837	7.1	216	
3 Sa	0526	7.1	216		18 Su	0532	7.8	238		3 Tu	0023	0.4	12		18 W	0059	-0.9	-27		3 Th	0040	0.0	0		18 F	0129	-0.8	-24	
	1155	0.5	15			1157	0.1	3			0605	6.7	204			0651	6.8	207			0624	6.2	189			0721	6.1	186	
	1734	7.2	219			1745	8.4	256			1231	1.4	43			1312	1.0	30			1247	1.3	40			1344	0.8	24	
											1801	7.2	219			1852	7.5	229			1817	6.9	210			1920	6.7	204	
4 Su	0015	0.5	15		19 M	0028	-0.8	-24		4 W	0056	0.5	15		19 Th	0148	-0.4	-12		4 F	0117	0.2	6		19 Sa	0216	-0.4	-12	
	0556	7.0	213			0617	7.6	232			0639	6.5	198			0739	6.4	195			0702	6.1	186			0805	5.8	177	
	1227	0.9	27			1242	0.5	15			1302	1.7	52			1403	1.4	43			1325	1.5	46			1434	1.1	34	
	1801	7.2	219			1827	8.2	250			1835	7.1	216			1939	7.0	213			1858	6.8	207			2006	6.2	189	
5 M	0047	0.6	18		20 Tu	0116	-0.6	-18		5 Th	0132	0.7	21		20 F	0241	0.0	0		5 Sa	0159	0.3	9		20 Su	0306	0.0	0	
	0627	6.8	207			0704	7.2	219			0717	6.3	192			0830	6.0	183			0746	6.0	183			0851	5.6	171	
	1258	1.2	37			1329	1.0	30			1336	2.0	61			1500	1.7	52			1412	1.6	49			1528	1.3	40	
	1830	7.2	219			1911	7.8	238			1914	6.9	210			2031	6.5	198			1944	6.6	201			2057	5.8	177	
6 Tu	0120	0.8	24		21 W	0207	-0.2	-6		6 F	0214	1.0	30		21 Sa	0339	0.5	15		6 Su	0248	0.6	18		21 M	0359	0.5	15	
	0700	6.6	201			0754	6.6	201			0801	6.0	183			0928	5.6	171			0837	5.9	180			0942	5.4	165	
	1328	1.6	49			1421	1.5	46			1422	2.3	70			1603	2.0	61			1513	1.7	52			1627	1.4	43	
	1903	7.1	216			1959	7.3	223			2000	6.7	204			2131	6.0	183			2039	6.3	192			2154	5.4	165	
7 W	0156	1.0	30		22 Th	0304	0.3	9		7 Sa	0310	1.2	37		22 Su	0440	0.8	24		7 M	0348	0.7	21		22 Tu	0455	0.8	24	
	0738	6.3	192			0851	6.1	186			0856	5.8	177			1034	5.4	165			0936	5.8	177			1038	5.2	158	
	1401	2.0	61			1522	2.0	61			1531	2.5	76			1710	2.0	61			1625	1.7	52			1729	1.4	43	
	1940	6.8	207			2055	6.7	204			2057	6.3	192			2243	5.7	174			2144	5.9	180			2300	5.1	155	
8 Th	0239	1.3	40		23 F	0407	0.8	24		8 Su	0420	1.4	43		23 M	0541	1.0	30		8 Tu	0455	0.9	27		23 W	0552	1.0	30	
	0823	5.9	180			0958	5.7	174			1003	5.7	174			1143	5.5	168			1043	5.9	180			1137	5.2	158	
	1444	2.4	73			1632	2.3	70			1654	2.4	73			1815	1.8	55			1737	1.4	43			1830	1.2	37	
	2026	6.6	201			2203	6.2	189			2206	6.1	186			2359	5.5	168			2259	5.7	174						
9 F	0340	1.6	49		24 Sa	0515	1.0	30		9 M	0533	1.3	40		24 Tu	0640	1.1	34		9 W	0602	0.8	24		24 Th	0010	4.9	149	
	0919	5.6	171			1118	5.5	168			1119	5.8	177			1247	5.6	171			1152	6.1	186			0649	1.1	34	
	1558	2.7	82			1744	2.3	70			1809	2.1	64			1914	1.5	46			1845	0.9	27			1235	5.3	162	
	2122	6.3	192			2324	5.9	180			2327	6.0	183														1927	0.9	27
10 Sa	0457	1.7	52		25 Su	0621	1.1	34		10 Tu	0640	1.1	34		25 W	0108	5.6	171		10 Th	0017	5.8	177		25 F	0117	5.0	152	
	1032	5.4	165			1240	5.6	171			1232	6.1	186			0734	1.0	30			0705	0.7	21			0743	1.0	30	
	1725	2.7	82			1852	2.1	64			1914	1.5	46			1339	5.9	180			1257	6.4	195			1329	5.5	168	
	2234	6.1	186													2007	1.1	34			1946	0.2	6			2019	0.5	15	
11 Su	0611	1.5	46		26 M	0045	6.0	183		11 W	0045	6.2	189		26 Th	0205	5.8	177		11 F	0130	6.0	183		26 Sa	0215	5.1	155	
	1156	5.5	168			0721	1.0	30			0739	0.8	24			0823	0.9	27			0804	0.5	15			0833	0.9	27	
	1840	2.4	73			1343	5.9	180			1334	6.7	204			1422	6.2	189			1356	6.8	207			1417	5.8	177	
	2356	6.1	186			1950	1.7	52			2012	0.8	24			2053	0.7	21			2041	-0.4	-12			2106	0.2	6	
12 M	0716	1.2	37		27 Tu	0150	6.2	189		12 Th	0153	6.6	201		27 F	0252	6.0	183		12 Sa	0234	6.2	189		27 Su	0304	5.3	162	
	1310	6.0	183			0813	0.8	24			0832	0.4	12			0907	0.8	24			0858	0.3	9			0919	0.8	24	
	1943	1.9	58			1430	6.3	192			1427	7.2	219			1459	6.5	198			1450	7.2	219			1459	6.0	183	
						2040	1.2	37			2103	0.0	0			2136	0.3	9			2133	-0.9	-27			2150	-0.1	-3	
13 Tu	0112	6.4	195		28 W	0242	6.4	195		13 F	0252	7.0	213		28 Sa	0332	6.1	186		13 Su	0331	6.5	198		28 M	0346	5.5	168	
	0812	0.7	21			0859	0.6	18			0921	0.2	6			0948	0.8	24			0949	0.2	6			1002	0.8	24	
	1409	6.6	201			1506	6.6	201			1514	7.7	235			1533	6.7	204			1539	7.5	229			1538	6.2	189	
	2037	1.2	37			2124	0.8	24			2152	-0.6	-18			2215	0.1	3			2223	-1.3	-40			2231	-0.4	-12	
14 W	0216	6.9	210		29 Th	0323	6.6	201		14 Sa	0344	7.3	223		29 Su	0409	6.3	192		14 M	0422	6.7	204		29 Tu	0424	5.7	174	
	0901	0.3	9			0940	0.5	15			1008	0.1	3			1027	0.8	24			1037	0.1	3			1042	0.7	21	
	1458	7.2	219			1538	6.9	210			1559	8.1	247			1605	6.8	207			1625	7.6	232			1615	6.4	195	
	2126	0.5	15			2204	0.5	15			2239	-1.0	-30			2253	-0.1	-3			2310	-1.5	-46			2310	-0.5	-15	
15 Th	0311	7.3	223		30 F	0359	6.8	207		15 Su	0432	7.4	226		30 M	0443	6.3	192		15 Tu	0509	6.7	204		30 W	0500	5.8	177	
	0947	0.0	0			1018	0.6	18			1053	0.1	3			1103	0.9	27			1124	0.2	6			1120	0.6	18	
	1542	7.7	235			1607	7.1	216			1642	8.2	250			1636	6.9	210			1710	7.6	232			1651	6.6	201	
	2213	-0.2	-6			2241	0.3	9			2325	-1.2	-37			2329	-0.1	-3			2357	-1.4	-43			2348	-0.6	-18	
					31 Sa	0432	6.8	20																					

Suriname River Entrance, Surinam, 2020

Times and Heights of High and Low Waters

January				February				March							
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height		
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm	
1 W	0213	1.7	52	16 Th	0236	1.1	34	1 Sa	0304	1.9	58	16 Su	0349	2.0	61
	0826	6.5	198		0850	7.3	223		0916	6.7	204		1004	6.8	207
	1433	2.1	64		1502	1.4	43	●	1530	1.9	58		1628	1.9	58
	2045	6.6	201		2116	7.2	219		2145	6.5	198		2247	6.3	192
2 Th	0304	2.0	61	17 F	0331	1.5	46	2 Su	0356	2.2	67	17 M	0454	2.4	73
	0918	6.4	195		0947	7.0	213		1009	6.5	198		1111	6.4	195
	1528	2.2	67	●	1603	1.6	49		1629	2.1	64		1742	2.1	64
	2142	6.4	195		2219	6.8	207		2246	6.3	192	●	2156	6.3	192
3 F	0359	2.2	67	18 Sa	0432	1.8	55	3 M	0457	2.4	73	18 Tu	0004	6.0	183
	1016	6.3	192		1049	6.8	207		1113	6.4	195		0611	2.7	82
●	1630	2.3	70		1710	1.8	55		1737	2.1	64		1228	6.3	192
	2244	6.3	192		2327	6.6	201		2356	6.2	189		1900	2.2	67
4 Sa	0500	2.3	70	19 Su	0538	2.0	61	4 Tu	0606	2.4	73	19 W	0122	6.0	183
	1116	6.3	192		1155	6.8	207		1222	6.4	195		0727	2.6	79
	1733	2.2	67		1819	1.8	55		1849	2.0	61		1342	6.4	195
	2348	6.3	192										2009	2.0	61
5 Su	0600	2.2	67	20 M	0636	6.5	198	5 W	0108	6.3	192	20 Th	0226	6.3	192
	1216	6.5	198		0644	2.1	64		0715	2.3	70		0830	2.3	70
	1835	2.0	61		1300	6.8	207		1329	6.7	204		1441	6.7	204
					1925	1.7	52		1955	1.6	49		2103	1.7	52
6 M	0049	6.4	195	21 Tu	0141	6.5	198	6 Th	0212	6.6	201	21 F	0316	6.6	201
	0658	2.1	64		0745	2.1	64		0817	1.9	58		0920	1.9	58
	1311	6.7	204		1359	7.0	213		1429	7.1	216		1529	7.1	216
	1931	1.7	52		2023	1.5	46		2052	1.2	37		2147	1.4	43
7 Tu	0145	6.7	204	22 W	0237	6.7	204	7 F	0307	7.1	216	22 Sa	0357	6.9	210
	0750	1.9	58		0840	1.9	58		0912	1.5	46		1001	1.6	49
	1402	7.1	216		1451	7.2	219		1523	7.6	232		1610	7.4	226
	2022	1.3	40		2113	1.3	40		2143	0.7	21		2224	1.1	34
8 W	0235	6.9	210	23 Th	0326	6.9	210	8 Sa	0356	7.5	229	23 Su	0433	7.3	223
	0839	1.6	49		0927	1.7	52		1001	1.0	30		1037	1.2	37
	1450	7.4	226		1538	7.4	226		1611	8.1	247	●	1646	7.6	232
	2109	1.0	30		2158	1.1	34		2229	0.4	12		2258	0.9	27
9 Th	0322	7.2	219	24 F	0409	7.0	213	9 Su	0442	7.9	241	24 M	0505	7.5	229
	0925	1.4	43		1010	1.5	46		1046	0.6	18		1110	1.0	30
	1535	7.8	238	●	1620	7.5	229		1657	8.4	256		1719	7.8	238
	2155	0.7	21		2238	1.0	30	○	2314	0.1	3		2330	0.8	24
10 F	0407	7.5	229	25 Sa	0447	7.2	219	10 M	0525	8.1	247	25 Tu	0537	7.7	235
	1010	1.1	34		1049	1.3	40		1131	0.4	12		1143	0.8	24
	1620	8.0	244		1659	7.7	235		1742	8.5	259		1752	7.9	241
○	2239	0.4	12		2315	0.9	27		2357	0.0	0				
11 Sa	0452	7.7	235	26 Su	0524	7.3	223	11 Tu	0607	8.3	253	26 W	0001	0.8	24
	1054	0.9	27		1126	1.2	37		1215	0.3	9		0608	7.7	235
	1704	8.2	250		1736	7.7	235		1826	8.5	259		1215	0.7	21
	2324	0.3	9		2351	0.9	27						1824	7.8	238
12 Su	0536	7.8	238	27 M	0559	7.3	223	12 W	0039	0.1	3	27 Th	0032	0.8	24
	1139	0.8	24		1203	1.2	37		0650	8.2	250		0639	7.7	235
	1750	8.2	250		1812	7.7	235		1259	0.3	9		1247	0.8	24
									1910	8.3	253		1857	7.7	235
13 M	0009	0.3	9	28 Tu	0026	1.0	30	13 Th	0122	0.4	12	28 F	0105	1.0	30
	0621	7.8	238		0634	7.3	223		0733	8.0	244		0712	7.6	232
	1226	0.8	24		1239	1.2	37		1344	0.6	18		1322	0.9	27
	1837	8.1	247		1849	7.6	232		1957	7.9	241		1933	7.4	226
14 Tu	0056	0.4	12	29 W	0102	1.1	34	14 F	0207	0.9	27	29 Sa	0139	1.3	40
	0708	7.7	235		0710	7.2	219		0818	7.7	235		0747	7.3	223
	1314	0.9	27		1317	1.3	40		1432	0.9	27		1400	1.2	37
	1926	7.9	241		1927	7.4	226		2046	7.3	223		2012	7.1	216
15 W	0144	0.7	21	30 Th	0140	1.3	40	15 Sa	0255	1.4	43	15 Su	0220	1.5	46
	0757	7.5	229		0748	7.1	216	●	0907	7.2	219		0830	7.3	223
	1406	1.1	34		1357	1.5	46		1526	1.4	43		1451	1.4	43
	2019	7.6	232		2008	7.1	216		2141	6.8	207		2106	6.6	201
				31 F	0220	1.6	49								
					0829	6.9	210								
					1440	1.7	52								
					2053	6.8	207								
16 M	0310	2.2	67		0310	2.2	67	16 Su	0310	2.2	67	16 M	0310	2.2	67
	0922	6.7	204		0922	6.7	204		0922	6.7	204		0922	6.7	204
○	1550	2.0	61		1550	2.0	61	○	1550	2.0	61	○	1550	2.0	61
	2210	6.0	183		2210	6.0	183		2210	6.0	183		2210	6.0	183
17 Tu	0414	2.7	82		0414	2.7	82	17 M	0414	2.7	82	17 Tu	0414	2.7	82
	1031	6.1	186		1031	6.1	186		1031	6.1	186		1031	6.1	186
	1707	2.4	73		1707	2.4	73		1707	2.4	73		1707	2.4	73
	2334	5.7	174		2334	5.7	174		2334	5.7	174		2334	5.7	174
18 W	0542	3.0	91		0542	3.0	91	18 W	0542	3.0	91	18 W	0542	3.0	91
	1200	5.9	180		1200	5.9	180		1200	5.9	180		1200	5.9	180
	1837	2.5	76		1837	2.5	76		1837	2.5	76		1837	2.5	76
19 Th	0104	5.8	177		0104	5.8	177	19 Th	0104	5.8	177	19 Th	0104	5.8	177
	0712	2.9	88		0712	2.9	88		0712	2.9	88		0712	2.9	88
	1325	6.1	186		1325	6.1	186		1325	6.1	186		1325	6.1	186
	1952	2.3	70		1952	2.3	70		1952	2.3	70		1952	2.3	70
20 F	0211	6.1	186		0211	6.1	186	20 F	0211	6.1	186	20 F	0211	6.1	186
	0817	2.4	73		0817	2.4	73		0817	2.4	73		0817	2.4	73
	1427	6.5	198		1427	6.5	198		1427	6.5	198		1427	6.5	198
	2046	1.9	58		2046	1.9	58		2046	1.9	58		2046	1.9	58
21 Sa	0259	6.6	201		0259	6.6	201	21 Sa	0259	6.6	201	21 Sa	0259	6.6	201
	0905	1.9	58		0905	1.9	58		0905	1.9	58		0905	1.9	58
	1513	6.9	210		1513	6.9	210		1513	6.9	210		1513	6.9	210
	2127	1.5	46		2127	1.5	46		2127	1.5	46		2127	1.5	46
22 Su	0337	7.0	213		0337	7.0	213	22 Su	0337	7.0	213	22 Su	0337	7.0	213
	0943	1.5	46		0943	1.5	46		0943	1.5	46		0943	1.5	46
	1551	7.3	223		1551	7.3	223		1551	7.3	223		1551	7.3	223
	2201	1.2	37		2201	1.2	37		2201	1.2	37		2201	1.2	37
23 M	0409	7.4	226		0409	7.4	226	23 M	0409	7.4	226	23 M	0409	7.4	226
	1016	1.1	34		1016	1.									

Suriname River Entrance, Surinam, 2020

Times and Heights of High and Low Waters

April				May				June						
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height	
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm
1 W	0329	2.5	76		16 Th	0514	3.1	94		1 F	0438	2.6	79	
	0944	6.4	195			1132	5.8	177			1055	6.4	195	
○	1618	2.1	64			1807	2.6	79		16 Sa	1212	6.1	186	
	2244	6.0	183								1832	2.3	70	
2 Th	0453	2.7	82		17 F	0035	5.8	177		2 M	0606	2.3	70	
	1112	6.2	189			0645	2.9	88			1220	6.6	201	
○	1748	2.1	64			1257	6.0	183		17 Su	1314	6.3	192	
						1921	2.3	70			1927	2.0	61	
3 F	0017	6.1	186		18 Sa	0140	6.2	189		3 W	0105	6.9	210	
	0627	2.5	76			0749	2.4	73			0718	1.7	52	
○	1243	6.5	198			1359	6.4	195		18 M	1330	7.1	216	
	1911	1.8	55			2013	2.0	61			1946	1.2	37	
4 Sa	0133	6.6	201		19 Su	0227	6.6	201		4 Th	0202	7.5	229	
	0743	1.9	58			0836	1.9	58			0815	1.0	30	
○	1453	7.0	213			1444	6.8	207		19 Tu	1426	7.6	232	
	2014	1.2	37			2054	1.6	49			2037	0.8	24	
5 Su	0231	7.3	223		20 M	0304	7.1	216		5 W	0250	8.0	244	
	0840	1.2	37			0913	1.4	43			0904	0.4	12	
○	1451	7.7	235			1522	7.2	219		20 Th	1515	8.1	247	
	2106	0.7	21			2129	1.2	37			2123	0.4	12	
6 M	0318	7.9	241		21 Tu	0337	7.5	229		6 F	0333	8.4	256	
	0929	0.5	15			0947	1.0	30			0948	0.0	0	
○	1539	8.2	250			1555	7.5	229		6 Sa	1559	8.3	253	
	2151	0.2	6			2201	1.0	30			2205	0.3	9	
7 Tu	0401	8.4	256		22 W	0408	7.8	238		7 Th	0414	8.7	265	
	1012	0.0	0			1018	0.7	21			1030	-0.2	-6	
○	1623	8.6	262		●	1626	7.8	238			1641	8.3	253	
	2232	0.0	0			2231	0.8	24			2245	0.3	9	
8 W	0441	8.7	265		23 Th	0437	8.0	244		8 F	0453	8.7	265	
	1053	-0.3	-9			1048	0.5	15			1110	-0.2	-6	
○	1705	8.7	265			1657	7.9	241		8 Sa	1110	8.2	250	
	2311	0.0	0			2300	0.8	24			1721	8.2	250	
9 Th	0520	8.8	268		24 F	0506	8.1	247		9 Su	0532	8.5	259	
	1133	-0.4	-12			1119	0.4	12			1150	0.0	0	
○	1745	8.6	262			1728	7.8	238		10 M	1209	0.6	18	
	2350	0.2	6			2330	0.9	27			1821	7.3	223	
10 F	0558	8.7	265		25 Sa	0537	8.0	244		11 Tu	0021	1.4	43	
	1213	-0.2	-6			1151	0.4	12			0630	7.7	235	
○	1825	8.2	250			1801	7.7	235			1252	0.9	27	
											1906	7.1	216	
11 Sa	0028	0.6	18		26 Su	0002	1.0	30		12 W	0107	1.6	49	
	0636	8.4	256			0609	7.9	241			0718	7.4	226	
○	1253	0.2	6			1226	0.6	18		12 Th	1342	1.1	34	
	1905	7.7	235			1837	7.5	229			1958	6.8	207	
12 Su	0107	1.1	34		27 M	0037	1.3	40		13 F	0254	2.3	70	
	0716	7.8	238			0645	7.7	235			0907	6.5	198	
○	1335	0.8	24			1305	0.9	27			1530	2.1	64	
	1948	7.1	216			1917	7.1	216			2148	6.2	189	
13 M	0149	1.7	52		28 Tu	0118	1.6	49		13 Sa	0357	2.5	76	
	0759	7.2	219			0728	7.3	223			1010	6.3	192	
○	1422	1.4	43			1351	1.2	37		●	1632	2.2	67	
	2038	6.5	198			2006	6.7	204			2251	6.2	189	
14 Tu	0238	2.3	70		29 W	0208	2.1	64		14 Su	0504	2.5	76	
	0850	6.6	201			0820	6.9	210			1116	6.2	189	
○	1520	2.1	64			1448	1.6	49			1734	2.2	67	
	2141	5.9	180			2109	6.3	192			2352	6.3	192	
15 W	0344	2.9	88		30 Th	0313	2.4	73		15 M	0606	2.3	70	
	1000	6.0	183			0929	6.5	198			1218	6.3	192	
○	1637	2.5	76		○	1602	1.9	58			1831	2.1	64	
	2306	5.6	171			2229	6.2	189						
										31 Su	0539	1.9	58	
											1153	6.8	207	
											1812	1.6	49	

Time meridian 52° 30' W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to the chart datum of soundings.
 Seasonal variations in sea level have not been included in these predictions.

Suriname River Entrance, Surinam, 2020

Times and Heights of High and Low Waters

July				August				September									
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height				
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm			
1 W	0054	7.2	219			16 Su	0206	6.8	207	1 Tu	0352	7.4	226	16 W	0334	8.0	244
	0715	1.3	40				0829	1.5	46		1006	1.1	34		0948	0.4	12
	1329	7.0	213				1445	6.8	207		1615	7.3	223		1559	8.1	247
	1936	1.5	46				2049	1.8	55		2220	1.2	37		2208	0.4	12
2 Th	0150	7.5	229			2 Su	0300	7.3	223	2 W	0429	7.6	232	17 Th	0418	8.4	256
	0811	1.0	30				0921	1.1	34		1041	0.9	27		1030	0.1	3
	1425	7.1	216				1534	7.2	219		1649	7.5	229		1640	8.5	259
	2029	1.4	43				2139	1.3	40		2255	0.9	27		2250	0.0	0
3 F	0241	7.6	232			3 M	0350	7.8	238	3 Th	0504	7.8	238	18 F	0501	8.7	265
	0903	0.9	27				1007	0.6	18		1114	0.8	24		1111	-0.1	-3
	1515	7.2	219				1619	7.7	235		1721	7.7	235		1720	8.7	265
	2117	1.4	43				2225	0.8	24		2327	0.8	24		2331	-0.2	-6
4 Sa	0329	7.8	238			4 Tu	0435	8.2	250	4 F	0537	7.9	241	19 Sa	0542	8.7	265
	0950	0.7	21				1051	0.3	9		1145	0.8	24		1151	0.0	0
	1602	7.3	223				1702	8.0	244		1752	7.8	238		1759	8.7	265
	2203	1.3	40				2308	0.5	15		2359	0.7	21				
5 Su	0414	7.8	238			5 W	0519	8.4	256	5 Sa	0609	7.8	238	20 Su	0612	-0.2	-6
	1034	0.7	21				1133	0.1	3		1216	0.9	27		0624	8.5	259
	1645	7.3	223				1744	8.2	250		1823	7.7	235		1231	0.3	9
	2246	1.3	40				2351	0.3	9						1839	8.5	259
6 M	0456	7.8	238			6 Th	0601	7.7	235	6 Su	0032	0.8	24	21 M	0054	0.1	3
	1116	0.8	24				1214	0.9	27		0642	7.7	235		0707	8.0	244
	1727	7.2	219				1822	7.4	226		1248	1.0	30		1312	0.8	24
	2328	1.3	40								1855	7.6	232		1921	8.0	244
7 Tu	0538	7.7	235			7 F	0028	1.1	34	7 M	0106	0.9	27	22 Tu	0138	0.5	15
	1157	0.9	27				0638	7.6	232		0717	7.4	226		0752	7.5	229
	1807	7.2	219				1250	1.1	34		1322	1.3	40		1356	1.4	43
							1858	7.3	223		1929	7.3	223		2006	7.5	229
8 W	0009	1.4	43			8 Sa	0105	1.2	37	8 Tu	0143	1.2	37	23 W	0228	1.1	34
	0620	7.5	229				0715	7.4	226		0754	7.1	216		0843	6.8	207
	1238	1.1	34				1326	1.2	37		1400	1.7	52		1446	2.0	61
	1848	7.1	216				1935	7.2	219		2008	7.0	213		2058	6.9	210
9 Th	0051	1.5	46			9 Su	0143	1.3	40	9 W	0225	1.5	46	24 Th	0326	1.8	55
	0702	7.3	223				0754	7.2	219		0838	6.7	204		0946	6.2	189
	1319	1.3	40				1405	1.5	46		1444	2.1	64		1550	2.6	79
	1930	6.9	210				2014	7.0	213		2039	7.5	229		2206	6.3	192
10 F	0134	1.7	52			10 M	0225	1.5	46	10 Tu	0258	1.1	34	25 F	0441	2.2	67
	0746	7.1	216				0837	6.9	210		0913	7.0	213		1109	5.8	177
	1402	1.5	46				1447	1.8	55		1521	1.8	55		1716	2.9	88
	2014	6.8	207				2057	6.8	207		2134	7.0	213		2333	6.0	183
11 Sa	0221	1.8	55			11 Tu	0311	1.8	55	11 W	0357	1.6	49	26 Sa	0610	2.4	73
	0832	6.8	207				0925	6.6	201		1016	6.5	198		1238	5.9	180
	1448	1.8	55				1534	2.1	64		1622	2.3	70		1654	2.8	85
	2101	6.6	201				2147	6.5	198		2238	6.6	201		2312	6.1	186
12 Su	0311	2.0	61			12 W	0405	2.0	61	12 Th	0508	1.9	58	27 Sa	0545	2.3	70
	0923	6.6	201				1022	6.3	192		1130	6.1	186		1212	6.0	183
	1538	2.0	61				1631	2.4	73		1737	2.6	79		1821	2.7	82
	2152	6.5	198				2246	6.3	192		2354	6.4	195		1821	2.7	82
13 M	0405	2.1	64			13 Th	0509	2.2	67	13 F	0627	2.1	64	28 Su	0205	6.5	198
	1019	6.4	195				1128	6.1	186		1250	6.1	186		0706	2.0	61
	1633	2.2	67				1738	2.5	76		1856	2.6	79		1328	6.3	192
	2248	6.4	195				2353	6.3	192						1936	2.2	67
14 Tu	0504	2.2	67			14 F	0620	2.1	64	14 Sa	0111	6.4	195	14 M	0148	6.8	207
	1118	6.3	192				1240	6.1	186		0740	2.0	61		0810	1.5	46
	1730	2.3	70				1848	2.5	76		1400	6.3	192		1427	6.9	210
	2346	6.4	195								2005	2.3	70		2034	1.6	49
15 W	0605	2.1	64			15 Sa	0103	6.5	198	15 Su	0217	6.7	204	15 Tu	0245	7.4	226
	1219	6.3	192				0729	1.9	58		0839	1.7	52		0903	0.9	27
	1829	2.2	67				1347	6.4	195		1455	6.6	201		1516	7.5	229
							1953	2.2	67		2059	1.9	58		2124	1.0	30
					31 M	0309	7.0	213	31 F	0927	1.4	43	31 W	0332	7.3	223	
						1538	7.0	213		0927	1.4	43		0942	1.1	34	
						2143	1.6	49		1538	7.0	213		1550	7.4	226	
										2143	1.6	49		2158	1.0	30	

Time meridian 52° 30' W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.

Heights are referred to the chart datum of soundings.

Seasonal variations in sea level have not been included in these predictions.

Suriname River Entrance, Surinam, 2020

Times and Heights of High and Low Waters

October				November				December																
Time	Height			Time	Height			Time	Height			Time	Height											
	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm								
1 Th	0406	7.6	232		16 F	0357	8.5	259	1 Su	0439	7.8	238	16 M	0458	8.3	253	1 Tu	0447	7.5	229	16 W	0524	7.7	235
	1014	0.9	27		1005	0.1	3		1042	0.8	24		1100	0.4	12		1048	1.1	34		1124	1.0	30	
	1621	7.7	235		1615	8.7	265		1648	8.0	244		1709	8.7	265		1655	7.9	241		1735	8.1	247	
	2229	0.7	21		2227	-0.3	-9		2301	0.5	15		2328	-0.1	-3		2312	0.6	18		2355	0.5	15	
2 F	0438	7.8	238		17 Sa	0438	8.7	265	2 M	0510	7.8	238	17 Tu	0539	8.0	244	2 W	0522	7.4	226	17 Th	0607	7.4	226
	1044	0.8	24		1045	0.0	0		1112	0.9	27		1140	0.7	21		1122	1.2	37		1207	1.2	37	
	1650	7.9	241		1654	8.9	271		1718	8.0	244		1750	8.4	256		1731	7.8	238		1818	7.8	238	
	2259	0.5	15		2308	-0.4	-12		2332	0.5	15		2349	0.7	21		2349	0.7	21					
3 Sa	0508	7.9	241		18 Su	0519	8.6	262	3 Tu	0542	7.6	232	18 W	0010	0.2	6	3 Th	0600	7.3	223	18 F	0038	0.8	24
	1113	0.7	21		1124	0.1	3		1143	1.1	34		0622	7.6	232		1200	1.4	43		0650	7.1	216	
	1719	8.0	241		1733	8.8	268		1750	7.9	241		1832	7.9	241		1809	7.7	235		1251	1.6	49	
	2329	0.5	15		2349	-0.3	-9														1902	7.4	226	
4 Su	0538	7.9	241		19 M	0600	8.3	253	4 W	0006	0.7	21	19 Th	0054	0.8	24	4 F	0030	0.9	27	19 Sa	0124	1.2	37
	1142	0.8	24		1203	0.4	12		0016	7.4	226		0707	7.1	216		0642	7.1	216		0736	6.8	207	
	1748	8.0	244		1812	8.5	259		1217	1.3	40		1306	1.7	52		1243	1.6	49		1339	1.9	58	
									1824	7.6	232		1917	7.3	223		1853	7.4	226		1951	7.0	213	
5 M	0000	0.5	15		20 Tu	0030	0.0	0	5 Th	0043	0.9	27	20 F	0142	1.3	40	5 Sa	0116	1.1	34	20 Su	0212	1.6	49
	0610	7.7	235		0642	7.9	241		0655	7.0	213		0757	6.6	201		0730	6.8	207		0827	6.5	198	
	1213	1.0	30		1244	1.0	30		1255	1.7	52		1357	2.2	67		1333	1.9	58		1432	2.2	67	
	1819	7.8	238		1853	8.0	244		1905	7.3	223		2010	6.8	207		1945	7.1	216		2045	6.6	201	
6 Tu	0032	0.7	21		21 W	0113	0.6	18	6 F	0127	1.3	40	21 Sa	0238	1.9	58	6 Su	0210	1.4	43	21 M	0306	2.0	61
	0643	7.5	229		0727	7.2	219		0741	6.7	204		0857	6.1	186		0827	6.6	201		0923	6.3	192	
	1245	1.3	40		1327	1.6	49		1342	2.1	64		1500	2.6	79		1433	2.1	64		1532	2.4	73	
	1852	7.5	229		1938	7.4	226		1954	6.9	210		2115	6.3	192		2047	6.8	207		2146	6.3	192	
7 W	0108	1.0	30		22 Th	0202	1.3	40	7 Sa	0221	1.7	52	22 Su	0345	2.3	70	7 M	0313	1.7	52	22 Tu	0406	2.2	67
	0719	7.1	216		0818	6.6	201		0840	6.3	192		1009	5.9	180		0934	6.5	198		1025	6.2	189	
	1321	1.7	52		1418	2.2	67		1444	2.4	73		1618	2.8	85		1544	2.2	67		1638	2.5	76	
	1930	7.2	219		2030	6.7	204		2059	6.5	198		2233	6.0	183		2200	6.7	204		2251	6.2	189	
8 Th	0149	1.4	43		23 F	0300	1.9	58	8 Su	0331	2.0	61	23 M	0502	2.4	73	8 Tu	0425	1.8	55	23 W	0509	2.3	70
	0803	6.7	204		0921	6.0	183		0956	6.1	186		1126	5.9	180		1046	6.6	201		1128	6.2	189	
	1405	2.1	64		1524	2.8	85		1605	2.6	79		1738	2.7	82		1701	2.0	61		1743	2.4	73	
	2016	6.8	207		2140	6.2	189		2222	6.3	192		2351	6.1	186		2316	6.7	204		2356	6.2	189	
9 F	0241	1.8	55		24 Sa	0416	2.4	73	9 M	0454	2.1	64	24 Tu	0612	2.3	70	9 W	0536	1.7	52	24 Th	0610	2.3	70
	0859	6.2	189		1046	5.7	174		1121	6.2	189		1232	6.2	189		1156	6.9	210		1226	6.4	195	
	1503	2.6	79		1653	3.0	91		1733	2.4	73		1845	2.4	73		1812	1.7	52		1843	2.1	64	
	2118	6.3	192		2310	5.9	180		2348	6.5	198													
10 Sa	0351	2.2	67		25 Su	0545	2.5	76	10 Tu	0613	1.8	55	25 W	0055	6.3	192	10 Th	0027	7.0	213	25 F	0055	6.4	195
	1017	5.9	180		1214	5.8	177		1234	6.7	204		0708	2.1	64		0641	1.5	46		0704	2.1	64	
	1625	2.8	85		1824	2.8	85		1847	1.9	58		1323	6.6	201		1257	7.3	223		1318	6.7	204	
	2243	6.1	186										1936	1.9	58		1915	1.2	37		1935	1.9	58	
11 Su	0519	2.3	70		26 M	0036	6.1	186	11 W	0100	7.0	213	26 Th	0145	6.6	201	11 F	0128	7.3	223	26 Sa	0146	6.6	201
	1148	6.0	183		0700	2.3	70		0716	1.3	40		0754	1.8	55		0738	1.2	37		0752	1.9	58	
	1759	2.7	82		1320	6.2	189		1333	7.3	223		1406	7.0	213		1351	7.7	235		1404	6.9	210	
					1929	2.4	73		1946	1.2	37		2018	1.5	46		2009	0.7	21		2020	1.6	49	
12 M	0014	6.3	192		27 Tu	0139	6.4	195	12 Th	0158	7.5	229	27 F	0227	7.0	213	12 Sa	0222	7.6	232	27 Su	0232	6.8	207
	0642	1.9	58		0754	1.9	58		0809	0.9	27		0833	1.5	46		0828	0.9	27		0835	1.7	52	
	1305	6.5	198		1408	6.7	204		1422	7.9	241		1443	7.3	223		1440	8.1	247		1445	7.2	219	
	1915	2.1	64		2017	1.9	58		2036	0.5	15		2056	1.2	37		2059	0.4	12		2102	1.3	40	
13 Tu	0127	6.9	210		28 W	0225	6.8	207	13 F	0248	8.0	244	28 Sa	0305	7.2	219	13 Su	0311	7.8	238	28 M	0313	7.0	213
	0747	1.4	43		0835	1.6	49		0856	0.5	15		0908	1.3	40		0915	0.8	24		0916	1.6	49	
	1404	7.1	216		1446	7.1	216		1507	8.4	256		1517	7.6	232		1526	8.3	253		1525	7.4	226	
	2014	1.4	43		2055	1.4	43		2122	0.0	0		2130	0.9	27		2145	0.2	6		2142	1.0	30	
14 W	0224	7.5	229		29 Th	0303	7.2	219	14 Sa	0333	8.3	253	29 Su	0339	7.4	226	14 M	0357	7.9	241	29 Tu	0353	7.2	219
	0838	0.8	24		0910	1.2	37		0939	0.3	9		0942	1.2	37		0959	0.7	21		0954	1.4	43	
	1451	7.8	238		1519	7.5	229		1549	8.7	265		1550	7.8	238		1610	8.4	256		1603	7.6	232	
	2102	0.7	21		2129	1.0	30		2205	-0.2	-6		2204	0.7	21		2229	0.1	3		2221	0.8	24	
15 Th	0313																							

Recife, Brazil, 2020

Times and Heights of High and Low Waters

January				February				March															
Time		Height		Time		Height		Time		Height		Time		Height									
h	m	ft	cm	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm				
1 W	0156	2.3	70	16 Th	0211	1.3	40	1 Sa	0230	2.6	80	16 Su	0356	2.3	70	1 Su	0138	2.3	70	16 M	0321	2.6	80
	0802	5.9	180		0821	6.6	200		0849	5.9	180		0958	5.9	180		0756	5.9	180		0923	5.9	180
	1408	2.6	80		1430	2.0	60		1451	3.0	90		1632	2.3	70		1356	2.6	80		1608	2.3	70
	2021	6.2	190		2049	6.9	210		2111	5.9	180		2247	5.9	180		2021	5.9	180		2223	5.6	170
2 Th	0249	2.6	80	17 F	0317	2.0	60	2 Su	0328	3.0	90	17 M	0521	2.6	80	2 M	0224	2.6	80	17 Tu	0456	3.0	90
	0856	5.6	170		0924	6.2	190		0949	5.6	170		1117	5.9	180		0851	5.6	170		1053	5.6	170
	1506	3.0	90		1541	2.3	70		1558	3.0	90		1800	2.3	70		1456	3.0	90		1747	2.6	80
	2117	5.9	180		2156	6.6	200		2217	5.6	170		2247	5.6	170		2128	5.6	170		2128	5.6	170
3 F	0349	2.6	80	18 Sa	0432	2.3	70	3 M	0443	3.0	90	18 Tu	0009	5.9	180	3 Tu	0338	3.0	90	18 W	0000	5.6	170
	0956	5.6	170		1036	5.9	180		1058	5.6	170		0639	2.6	80		1002	5.6	170		0621	3.0	90
	1613	3.0	90		1658	2.3	70		1721	3.0	90		1911	2.0	60		1628	3.0	90		1219	5.9	180
	2219	5.6	170		2309	6.6	200		2334	5.6	170		2006	1.6	50		2256	5.6	170		1900	2.3	70

Time meridian 45° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Recife, Brazil, 2020

Times and Heights of High and Low Waters

April				May				June																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
1 W ○	0300	3.0	90		16 Th	0553	3.0	90		1 F	0421	3.0	90		16 Sa	0606	2.6	80		1 M	0000	6.6	200		16 Tu	0024	5.9	180		17 W	0108	6.2	190		18 Th	0149	6.6	200		19 F	0226	6.9	210		20 Sa	0304	7.2	220		21 Su	0345	7.5	230		22 M	0424	7.5	230		23 Tu	0506	7.5	230		24 W	0554	7.9	240		25 Th	0643	7.2	220		26 F	0736	6.9	210		27 Sa	0836	6.9	210		28 Su	0943	6.9	210		29 M	1053	6.9	210		30 Tu	1158	6.9	210		31 W	1258	6.2	190		1 Th	0117	6.6	200		2 F	0228	5.6	170		3 Sa	0354	5.9	180		4 Su	0449	6.2	190		5 M	0509	6.6	200		6 Tu	0549	6.9	210		7 W	0628	6.2	190		8 Th	0708	6.2	190		9 F	0778	6.2	190		10 Sa	0849	6.2	190		11 Su	0919	6.2	190		12 M	0950	6.2	190		13 Tu	1020	6.2	190		14 W	1050	6.2	190		15 Th	1120	6.2	190		16 F	1150	6.2	190		17 Sa	1220	6.2	190		18 Su	1250	6.2	190		19 M	0100	6.2	190		20 Tu	0130	6.2	190		21 W	0159	6.2	190		22 Th	0229	6.2	190		23 F	0259	6.2	190		24 Sa	0329	6.2	190		25 Su	0359	6.2	190		26 M	0429	6.2	190		27 Tu	0459	6.2	190		28 W	0529	6.2	190		29 Th	0559	6.2	190		30 F	0629	6.2	190		1 Sa	0659	6.2	190		2 Su	0729	6.2	190		3 M	0759	6.2	190		4 Tu	0829	6.2	190		5 W	0859	6.2	190		6 Th	0929	6.2	190		7 F	0959	6.2	190		8 Sa	1029	6.2	190		9 Su	1059	6.2	190		10 M	1129	6.2	190		11 Tu	1159	6.2	190		12 W	1229	6.2	190		13 Th	1259	6.2	190		14 F	0100	6.2	190		15 Sa	0130	6.2	190		16 Su	0159	6.2	190		17 M	0229	6.2	190		18 Tu	0259	6.2	190		19 W	0329	6.2	190		20 Th	0359	6.2	190		21 F	0429	6.2	190		22 Sa	0459	6.2	190		23 Su	0529	6.2	190		24 M	0559	6.2	190		25 Tu	0629	6.2	190		26 W	0659	6.2	190		27 Th	0729	6.2	190		28 F	0759	6.2	190		29 Sa	0829	6.2	190		30 Su	0859	6.2	190		1 M	0929	6.2	190		2 Tu	0959	6.2	190		3 W	1029	6.2	190		4 Th	1059	6.2	190		5 F	1129	6.2	190		6 Sa	1159	6.2	190		7 Su	1229	6.2	190		8 M	1259	6.2	190		9 Tu	0100	6.2	190		10 W	0130	6.2	190		11 Th	0159	6.2	190		12 F	0229	6.2	190		13 Sa	0259	6.2	190		14 Su	0329	6.2	190		15 M	0359	6.2	190		16 Tu	0429	6.2	190		17 W	0459	6.2	190		18 Th	0529	6.2	190		19 F	0559	6.2	190		20 Sa	0629	6.2	190		21 Su	0659	6.2	190		22 M	0729	6.2	190		23 Tu	0759	6.2	190		24 W	0829	6.2	190		25 Th	0859	6.2	190		26 F	0929	6.2	190		27 Sa	0959	6.2	190		28 Su	1029	6.2	190		29 M	1059	6.2	190		30 Tu	1129	6.2	190		31 W	1159	6.2	190	

Time meridian 45° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Recife, Brazil, 2020

Times and Heights of High and Low Waters

July				August				September							
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height		
h m	ft	cm	h m	ft	cm	h m	ft	cm	h m	ft	cm	h m	ft	cm	
1 W	0028 0651 1300 1923	6.6 1.6 6.9 1.6	200 50 210 50	16 Th	0024 0651 1253 1911	5.9 2.3 6.2 2.3	180 70 190 70	1 Sa	0202 0832 1438 2051	6.9 1.3 6.9 1.6	210 40 210 50	16 Su	0138 0802 1408 2021	6.6 1.6 6.9 1.6	200 50 210 50
2 Th	0123 0747 1354 2011	6.9 1.3 7.2 1.3	210 40 220 40	17 F	0113 0738 1341 1958	6.2 2.0 6.6 2.0	190 60 200 60	2 Su	0249 0915 1519 2128	7.2 1.0 6.9 1.3	220 30 210 40	17 M	0223 0847 1454 2102	7.2 1.0 7.2 1.3	220 30 220 40
3 F	0211 0836 1445 2058	7.2 1.0 7.2 1.3	220 30 220 40	18 Sa	0200 0821 1426 2039	6.9 1.6 6.9 1.6	210 50 210 50	3 M	0330 0958 1558 2206	7.5 1.0 7.2 1.3	230 30 220 40	18 Tu	0308 0930 1538 2145	7.9 0.7 7.5 0.7	240 20 230 20
4 Sa	0300 0923 1530 2141	7.5 0.7 7.5 1.3	230 20 230 40	19 Su	0245 0904 1509 2121	7.2 1.3 7.2 1.3	220 40 220 40	4 Tu	0409 1036 1636 2243	7.9 0.7 7.2 1.3	240 20 220 40	19 W	0353 1011 1619 2226	8.2 0.0 7.9 0.7	250 0 240 20
5 Su	0345 1008 1613 2223	7.9 0.7 7.2 1.3	240 20 220 40	20 M	0326 0947 1556 2202	7.5 0.7 7.5 1.0	230 20 230 30	5 W	0451 1109 1711 2319	7.9 1.0 7.2 1.3	240 30 220 40	20 Th	0436 1056 1702 2308	8.5 0.0 7.9 0.3	260 0 240 10
6 M	0426 1053 1658 2304	7.9 0.7 7.2 1.3	240 20 220 40	21 Tu	0408 1030 1639 2245	7.9 0.7 7.5 1.0	240 20 230 30	6 Th	0526 1147 1749 2356	7.5 1.0 7.2 1.3	230 30 220 40	21 F	0519 1139 1749 2354	8.5 0.0 7.9 0.7	260 0 240 20
7 Tu	0509 1136 1739 2345	7.5 1.0 6.9 1.3	230 30 230 40	22 W	0454 1113 1723 2328	7.9 0.3 7.5 1.0	240 10 230 30	7 F	0604 1221 1824	7.2 1.3 6.9	220 40 210	22 Sa	0606 1224 1834	8.2 0.7 7.5	250 20 230
8 W	0554 1217 1821	7.5 1.3 6.9	230 40 210	23 Th	0539 1200 1809	7.9 0.7 7.5	240 20 230	8 Sa	0032 0643 1258 1904	1.6 6.9 1.6 6.6	50 210 50 200	23 Su	0041 0656 1315 1921	1.0 7.9 1.0 7.2	30 240 30 220
9 Th	0026 0638 1300 1904	1.6 7.2 1.6 6.6	50 20 50 200	24 F	0013 0626 1249 1858	1.0 7.9 0.7 7.2	30 240 20 220	9 Su	0108 0721 1336 1947	2.0 6.6 2.0 6.2	60 200 60 190	24 M	0132 0751 1409 2015	1.3 7.2 1.6 6.6	40 220 50 200
10 F	0109 0721 1347 1951	2.0 6.9 2.0 6.2	60 210 60 190	25 Sa	0102 0717 1341 1951	1.3 7.5 1.3 6.9	40 230 40 210	10 M	0151 0804 1417 2032	2.3 6.2 2.6 5.9	70 180 80 180	25 Tu	0234 0854 1517 2121	1.6 6.6 2.3 6.2	50 200 70 190
11 Sa	0158 0808 1434 2039	2.3 6.2 2.3 5.9	70 190 70 180	26 Su	0158 0811 1441 2049	1.6 7.2 1.6 6.6	50 200 50 200	11 Tu	0238 0856 1509 2128	2.6 5.9 3.0 5.6	80 180 90 170	26 W	0351 1008 1639 2239	2.3 6.2 2.6 5.9	70 190 80 180
12 Su	0251 0900 1526 2134	2.6 5.9 2.6 5.6	80 180 80 170	27 M	0300 0915 1547 2153	2.0 6.9 2.0 6.2	60 210 60 190	12 W	0341 1000 1621 2236	3.0 5.6 3.0 5.6	90 170 90 170	27 Th	0519 1134 1802	2.3 5.9 2.6	70 180 80
13 M	0351 0958 1626 2232	3.0 5.9 2.6 5.6	90 180 80 170	28 Tu	0411 1026 1700 2302	2.0 6.6 2.3 6.2	60 200 70 190	13 Th	0500 1111 1738 2345	3.0 5.6 3.0 5.6	90 170 90 170	28 F	0000 0639 1251 1908	5.9 2.0 6.2 2.3	180 60 190 70
14 Tu	0454 1058 1726 2332	3.0 5.9 2.6 5.9	90 180 80 180	29 W	0530 1143 1809	2.0 6.6 2.3	60 200 70	14 F	0613 1221 1843	2.6 5.9 2.6	80 180 80	29 Sa	0104 0739 1347 1958	6.2 1.6 6.2 2.0	190 50 190 60
15 W	0556 1158 1823	2.6 5.9 2.6	80 180 80	30 Th	0009 0641 1251 1911	6.2 2.0 6.6 2.0	190 60 200 60	15 Sa	0047 0711 1317 1936	6.2 2.3 6.2 2.3	190 70 190 70	30 Su	0156 0824 1428 2039	6.9 1.3 6.6 1.6	210 40 200 50
				31 F	0109 0741 1349 2004	6.6 1.6 6.6 2.0	200 50 200 60					31 M	0238 0904 1504 2113	7.2 1.0 6.9 1.3	220 30 210 40

Time meridian 45° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Recife, Brazil, 2020

Times and Heights of High and Low Waters

October				November				December			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft	h m	ft	h m	ft	h m	ft	h m	ft	h m	ft
1 Th	0324 7.5 230	16 F	0308 8.5 260	1 Su	0358 7.5 230	16 M	0419 8.5 260	1 Tu	0409 7.2 220	16 W	0454 7.9 240
	0943 1.0 30		0926 0.0 0		1008 1.0 30		1032 0.3 10		1017 1.3 40		1102 1.0 30
	1541 7.5 230		1532 8.2 250		1613 7.5 230		1638 8.2 250		1624 7.5 230		1706 7.9 240
	2153 1.0 30		2143 0.0 0		2224 1.0 30		2256 0.0 0		2239 1.0 30		2332 0.7 20
2 F	0356 7.9 240	17 Sa	0354 8.9 270	2 M	0432 7.5 230	17 Tu	0506 8.2 250	2 W	0449 7.2 220	17 Th	0541 7.2 220
	1009 1.0 30		1009 0.0 0		1039 1.0 30		1117 0.7 20		1053 1.3 40		1147 1.3 40
	1609 7.5 230		1613 8.5 260		1647 7.5 230		1723 7.9 240		1702 7.2 220		1754 7.5 230
	2221 1.0 30		2226 -0.3 -10		2256 1.0 30		2345 0.3 10		2315 1.3 40		
3 Sa	0426 7.5 230	18 Su	0438 8.9 270	3 Tu	0506 7.2 220	18 W	0556 7.5 230	3 Th	0528 6.9 210	18 F	0619 1.0 30
	1039 1.0 30		1053 0.0 0		1109 1.3 40		1204 1.3 40		1130 1.6 50		0626 6.9 210
	1643 7.5 230		1658 8.2 250		1721 7.2 220		1809 7.5 230		1743 7.2 220		1234 1.6 50
	2253 1.0 30		2309 0.0 0		2328 1.3 40				2356 1.3 40		1843 7.2 220
4 Su	0458 7.5 230	19 M	0523 8.2 250	4 W	0543 6.9 210	19 Th	0638 1.0 30	4 F	0611 6.6 200	19 Sa	0717 6.6 200
	1106 1.0 30		1138 0.7 20		1143 1.6 50		0649 6.9 210		1209 2.0 60		0717 6.6 200
	1713 7.2 220		1743 7.9 240		1758 6.9 210		1256 2.0 60		1824 6.9 210		1324 2.0 60
	2321 1.3 40		2358 0.3 10				1904 6.9 210				1936 6.9 210
5 M	0532 7.2 220	20 Tu	0611 7.9 240	5 Th	0606 1.6 50	20 F	0749 6.2 190	5 Sa	0702 6.2 190	20 Su	0811 5.9 180
	1138 1.3 40		1223 1.3 40		0623 6.6 200		1356 2.6 80		1258 2.3 70		1421 2.6 80
	1749 6.9 210		1830 7.2 220		1839 6.6 200		2004 6.6 200		1915 6.6 200		2032 6.2 190
	2354 1.6 50										
6 Tu	0606 6.9 210	21 W	0051 1.0 30	6 F	0051 2.0 60	21 Sa	0249 2.3 70	6 Su	0139 2.0 60	21 M	0309 2.3 70
	1208 2.0 60		0706 6.9 210		0713 5.9 180		0858 5.9 180		0800 5.9 180		0911 5.6 170
	1821 6.6 200		1317 2.0 60		1308 2.6 80		1511 3.0 90		1356 2.6 80		1528 2.6 80
			1924 6.9 210		1928 6.2 190		2117 5.9 180		2017 6.2 190		2136 5.9 180
7 W	0026 2.0 60	22 Th	0154 1.6 50	7 Sa	0149 2.3 70	22 Su	0409 2.3 70	7 M	0247 2.0 60	22 Tu	0417 2.6 80
	0645 6.2 190		0809 6.2 190		0817 5.6 170		1015 5.6 170		0906 5.9 180		1017 5.6 170
	1243 2.3 70		1424 2.6 80		1413 3.0 90		1638 3.0 90		1509 2.6 80		1641 3.0 90
	1902 6.2 190		2032 6.2 190		2038 5.9 180		2238 5.9 180		2128 6.2 190		2243 5.9 180
8 Th	0106 2.3 70	23 F	0317 2.3 70	8 Su	0309 2.6 80	23 M	0524 2.3 70	8 Tu	0404 2.0 60	23 W	0521 2.6 80
	0732 5.9 180		0932 5.6 170		0939 5.6 170		1126 5.6 170		1019 5.9 180		1119 5.6 170
	1328 2.6 80		1556 3.0 90		1545 3.0 90		1747 2.6 80		1628 2.6 80		1745 2.6 80
	1953 5.9 180		2156 5.9 180		2158 5.9 180		2345 5.9 180		2241 6.6 200		2343 5.9 180
9 F	0204 2.6 80	24 Sa	0454 2.3 70	9 M	0441 2.3 70	24 Tu	0623 2.3 70	9 W	0517 2.0 60	24 Th	0615 2.6 80
	0838 5.6 170		1104 5.6 170		1058 5.9 180		1221 5.9 180		1126 6.2 190		1213 5.9 180
	1436 3.3 100		1724 3.0 90		1709 2.6 80		1839 2.3 70		1739 2.3 70		1839 2.6 80
	2102 5.6 170		2323 5.9 180		2315 6.2 190				2351 6.9 210		
10 Sa	0334 3.0 90	25 Su	0609 2.3 70	10 Tu	0554 2.0 60	25 W	0706 2.0 60	10 Th	0619 1.6 50	25 F	0700 2.3 70
	1004 5.6 170		1217 5.9 180		1202 6.2 190		1304 6.2 190		1841 1.6 50		1300 6.2 190
	1621 3.3 100		1832 2.6 80		1813 2.3 70		1919 2.0 60				1923 2.3 70
	2232 5.6 170										
11 Su	0515 2.6 80	26 M	0028 6.2 190	11 W	0019 6.9 210	26 Th	0117 6.6 200	11 F	0049 7.2 220	26 Sa	0119 6.2 190
	1130 5.6 170		0704 2.0 60		0651 1.3 40		0741 2.0 60		0713 1.3 40		0741 2.0 60
	1749 3.0 90		1308 6.2 190		1256 6.9 210		1339 6.6 200		1317 7.2 220		1339 6.6 200
	2349 6.2 190		1917 2.3 70		1906 1.6 50		1956 1.6 50		1934 1.0 30		2000 2.0 60
12 M	0624 2.0 60	27 Tu	0115 6.6 200	12 Th	0111 7.5 230	27 F	0154 6.9 210	12 Sa	0143 7.5 230	27 Su	0200 6.6 200
	1234 6.2 190		0745 1.6 50		0738 1.0 30		0811 1.6 50		0802 1.0 30		0815 2.0 60
	1849 2.3 70		1343 6.6 200		1343 7.5 230		1409 6.9 210		1404 7.5 230		1417 6.9 210
			1954 2.0 60		1954 1.0 30		2028 1.6 50		2023 0.7 20		2038 1.6 50
13 Tu	0049 6.9 210	28 W	0154 6.9 210	13 F	0202 8.2 250	28 Sa	0226 6.9 210	13 Su	0232 7.9 240	28 M	0239 6.9 210
	0717 1.3 40		0815 1.6 50		0823 0.3 10		0843 1.3 40		0849 0.7 20		0853 1.6 50
	1323 6.9 210		1413 6.9 210		1426 7.9 240		1445 7.2 220		1453 7.9 240		1454 7.2 220
	1936 1.6 50		2024 1.6 50		2039 0.3 10		2100 1.3 40		2109 0.3 10		2111 1.3 40
14 W	0139 7.5 230	29 Th	0224 7.2 220	14 Sa	0249 8.5 260	29 Su	0300 7.2 220	14 M	0319 8.2 250	29 Tu	0315 7.2 220
	0802 0.7 20		0845 1.3 40		0906 0.3 10		0911 1.3 40		0934 0.7 20		0926 1.3 40
	1408 7.5 230		1443 7.2 220		1509 8.2 250		1515 7.2 220		1538 8.2 250		1532 7.2 220
	2017 1.0 30		2056 1.3 40		2123 0.0 0		2132 1.0 30		2158 0.0 0		2151 1.0 30
15 Th	0223 8.2 250	30 F	0256 7.2 220	15 Su	0334 8.5 260	30 M	0336 7.2 220	15 Tu	0406 7.9 240	30 W	0356 7.2 220
	0847 0.3 10		0911 1.0 30		0949 0.3 10		0945 1.3 40		1017 0.7 20		1004 1.3 40
	1453 8.2 250		1511 7.2 220		1554 8.2 250		1551 7.5 230		1621 8.2 250		1609 7.5 230
	2100 0.3 10		2124 1.0 30		2208 0.0 0		2204 1.0 30		2245 0.3 10		2226 1.0 30
		31 Sa	0326 7.5 230							31 Th	0436 7.2 220
			0939 1.0 30								1041 1.3 40
			1543 7.5 230								1651 7.5 230
			2154 1.0 30								2306 1.0 30

Time meridian 45° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Rio de Janeiro, Brazil, 2020
Times and Heights of High and Low Waters

Table with 3 main columns: January, February, and March. Each column contains daily tide data with sub-columns for Time and Height in both metric (m, ft, cm) and imperial (h, m, ft) units. Includes day-of-week indicators and specific tide type symbols (e.g., high water, low water, moon phases).

Time meridian 45° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings. * See Page 320 for the remaining tides on this day.

Rio de Janeiro, Brazil, 2020

Times and Heights of High and Low Waters

April				May				June																					
Time	Height			Time	Height			Time	Height			Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm										
1 W ☉	0354	2.0	60		16 Th	0106	3.0	90		1 F	0000	3.3	100		16 Sa	0532	2.0	60		1 M	0026	3.3	100		16 Tu	0604	1.3	40	
	0706	2.6	80			0532	2.0	60			0432	1.6	50			1026	3.0	90			0547	1.3	40						
	1047	2.0	60			0908	2.6	80			0821	2.6	80			1739	1.3	40			1138	3.3	100						
	1208	2.0	60			1726	1.3	40			1009	2.3	70			2345	3.3	100			1817	0.7	20						
	1600	1.3	40								1138*	2.3	70																
2 Th	0026	3.3	100		17 F	0058	3.0	90		2 Sa	0030	3.6	110		17 Su	0609	1.6	50		2 Tu	0039	3.3	100		17 W	0000	3.3	100	
	0500	1.6	50			0615	1.6	50			0528	1.6	50			1136	3.3	100			0636	1.0	30						
	0854	2.3	70			1123	3.0	90			1204	3.0	90			1823	1.0	30			1223	3.6	110						
	1006	2.3	70			1819	1.0	30			1747	0.7	20								1911	0.7	20						
	1223*	2.3	70																										
3 F	0056	3.6	110		18 Sa	0036	3.3	100		3 Su	0056	3.6	110		18 M	0009	3.3	100		3 W	0053	3.3	100		18 Th	0036	3.6	110	
	0600	1.6	50			0654	1.6	50			0617	1.3	40			0647	1.3	40			0721	0.7	20						
	1241	3.0	90			1209	3.3	100			1228	3.3	100			1221	3.6	110			1302	3.9	120						
	1811	0.7	20			1900	0.7	20			1843	0.3	10			1902	1.0	30			2004	0.7	20						
4 Sa	0123	3.9	120		19 Su	0051	3.6	110		4 M	0117	3.9	120		19 Tu	0039	3.6	110		4 Th	0113	3.3	100		19 F	0108	3.6	110	
	0651	1.3	40			0724	1.3	40			0702	1.0	30			0719	1.0	30			0808	0.7	20						
	1302	3.3	100			1253	3.6	110			1256	3.6	110			1300	3.9	120			1343	3.9	120						
	1904	0.3	10			1938	0.7	20			1932	0.3	10			1939	0.7	20			2056	1.0	30						
5 Su	0149	3.9	120		20 M	0113	3.6	110		5 Tu	0134	3.9	120		20 W	0108	3.6	110		5 F	0145	3.6	110		20 Sa	0145	3.6	110	
	0732	1.0	30			0756	1.0	30			0747	0.7	20			0753	0.7	20			0856	0.3	10						
	1324	3.9	120			1324	3.9	120			1324	3.9	120			1338	3.9	120			1421	4.3	130						
	1953	0.0	0			2008	0.7	20			2017	0.3	10			2011	0.7	20			2145	1.0	30						
6 M	0209	4.3	130		21 Tu	0143	3.9	120		6 W	0153	3.9	120		21 Th	0139	3.9	120		6 Sa	0215	3.6	110		21 Su	0217	3.6	110	
	0811	0.7	20			0824	0.7	20			0828	0.7	20			0826	0.7	20			0941	0.3	10						
	1353	4.3	130			1400	4.3	130			1358	4.3	130			1409	4.3	130			1502	3.9	120						
	2038	-0.3	-10			2041	0.7	20			2104	0.3	10			2049	0.7	20			2230	1.3	40						
7 Tu	0228	3.9	120		22 W	0209	3.9	120		7 Th	0213	3.6	110		22 F	0208	3.9	120		7 Su	0256	3.6	110		22 M	0254	3.6	110	
	0854	0.7	20			0854	0.7	20			0909	0.7	20			0858	0.7	20			1024	0.3	10						
	1421	4.3	130			1432	4.3	130			1434	4.3	130			1445	4.3	130			1545	3.9	120						
	2121	0.0	0			2111	0.7	20			2154	0.7	20			2123	1.0	30			2317	1.6	50						
8 W	0253	3.9	120		23 Th	0241	3.9	120		8 F	0243	3.6	110		23 Sa	0241	3.9	120		8 M	0334	3.6	110		23 Tu	0328	3.6	110	
	0934	0.7	20			0924	0.7	20			0954	0.7	20			0932	0.7	20			1108	0.7	20						
	1454	4.6	140			1502	4.3	130			1509	4.3	130			1515	4.3	130			1623	3.6	110						
	2208	0.3	10			2145	0.7	20			2245	1.0	30			2202	1.0	30			1623	3.6	110						
9 Th	0313	3.9	120		24 F	0306	3.9	120		9 Sa	0311	3.6	110		24 Su	0309	3.9	120		9 Tu	0004	2.0	60		24 W	0406	3.6	110	
	1013	0.7	20			0951	0.7	20			1038	0.7	20			1006	0.7	20			0411	3.6	110						
	1526	4.6	140			1536	4.3	130			1551	4.3	130			1554	3.9	120			1154	0.7	20						
	2256	0.7	20			2217	1.0	30			2338	1.6	50			2247	1.3	40			1706	3.6	110						
10 F	0343	3.6	110		25 Sa	0338	3.9	120		10 Su	0349	3.3	100		25 M	0345	3.6	110		10 W	0058	2.0	60		25 Th	0019	1.6	50	
	1054	1.0	30			1021	0.7	20			1123	1.0	30			1049	0.7	20			0458	3.3	100						
	1602	4.3	130			1604	3.9	120			1630	3.9	120			1630	3.9	120			1243	1.0	30						
	2351	1.3	40			2254	1.3	40								2341	1.6	50			1754	3.6	110						
11 Sa	0409	3.3	100		26 Su	0404	3.6	110		11 M	0034	2.0	60		26 Tu	0415	3.6	110		11 Th	0153	2.3	70		26 F	0115	1.6	50	
	1139	1.0	30			1045	1.0	30			0423	3.3	100			1139	0.7	20			0547	3.3	100						
	1643	3.9	120			1641	3.9	120			1711	3.3	100			1709	3.6	110			1338	1.3	40						
						2349	1.6	50			2058*	2.3	70								1845	3.0	90						
											0138	2.3	70								2217*	2.3	70						
12 Su	0053	1.6	50		27 M	0438	3.3	100		12 Tu	0502	3.0	90		27 W	0045	1.6	50		12 F	0249	2.3	70		27 Sa	0215	1.6	50	
	0447	3.3	100			1132	1.0	30			0502	3.0	90			0456	3.3	100			0641	3.0	90						
	0924	1.3	40			1715	3.6	110			1311	1.3	40			1243	1.0	30			1438	1.3	40						
	1056	1.3	40								1804	3.0	90			1800	3.3	100			1947	3.0	90						
	1232*	1.3	40								2111*	2.3	70																
13 M	0158	2.0	60		28 Tu	0058	2.0	60		13 W	0243	2.3	70		28 Th	0151	2.0	60		13 Sa	0345	2.0	60		28 Su	0313	1.6	50	
	0519	3.0	90			0508	3.3	100			0554	3.0	90			0543	3.0	90			0749	3.0	90						
	0947	1.3	40			1249	1.3	40			1421	1.3	40			1353	1.0	30			1545	1.3	40						
	1158	1.6	50			1802	3.3	100			1906	2.6	80			1908	3.0	90			2104	3.0	90						
	1341*	1.3	40								2139	2.6	80			2111*	3.0	90											
14 Tu	0008	2.6	80		29 W	0211	2.0	60		14 Th	0015	2.6	80		29 F	0256	2.0	60		14 Su	0436	2.0	60		29 M	0413	1.6	50	
	0309	2.3	70			0554	3.0	90			0349	2.3	70			0641	3.0	90			0911	3.0	90						
	0602	2.6	80			1409	1.3	40			0658	2.6	80			1502	1.0	30			1647	1.3	40						
	1013	1.6	50			1908	3.0	90			1536	1.3	40			2323	3.3	100			2226	3.0	90						
	1223*	1.6	50			2108*	2.6	80			</																		

Rio de Janeiro, Brazil, 2020

Times and Heights of High and Low Waters

July				August				September													
Time		Height		Time		Height		Time		Height		Time		Height							
1	W	h	m	ft	cm	16	Th	h	m	ft	cm	1	Tu	h	m	ft	cm				
0608		1.0	30			0609		1.3	40			0143		3.9	120	0149		3.9	120		
1206		3.3	100			1845		1.3	40	0747		0.7	20	0851		0.0	0	0828		-0.3	-10
1900		1.3	40			1356		3.6	110	1356		3.9	120	1426		3.9	120	1445		4.3	130
0008		3.0	90			2034		1.3	40	2034		1.3	40	2113		1.0	30	2053		0.7	20
0704		1.0	30			0111		3.3	100	0111		3.3	100	0219		4.3	130	0221		4.3	130
1300		3.6	110			0832		0.3	10	0832		0.0	0	0924		0.0	0	0913		-0.3	-10
1956		1.3	40			1419		3.9	120	1419		3.9	120	1458		4.3	130	1508		4.3	130
0045		3.3	100			2109		1.3	40	2109		1.3	40	2141		1.0	30	2132		0.7	20
0756		0.7	20			0156		3.6	110	0156		3.6	110	0258		4.3	130	0254		4.6	140
1341		3.6	110			0911		0.3	10	0911		0.0	0	0954		0.3	10	0958		-0.3	-10
2047		1.3	40			1451		3.9	120	1451		3.9	120	1526		4.3	130	1534		4.3	130
0121		3.3	100			2149		1.3	40	2149		1.3	40	2206		1.0	30	2209		0.7	20
0845		0.3	10			0236		3.9	120	0236		3.9	120	0332		4.3	130	0326		4.6	140
1419		3.9	120			0951		0.0	0	0951		0.0	0	1026		0.3	10	1047		0.0	0
2132		1.3	40			1521		3.9	120	1521		3.9	120	1558		3.9	120	1558		3.9	120
0202		3.6	110			2217		1.3	40	2217		1.3	40	2228		1.0	30	2251		0.7	20
0930		0.3	10			0311		3.9	120	0311		3.9	120	0404		4.3	130	0402		4.3	130
1500		3.9	120			1026		0.3	10	1026		-0.3	-10	1053		0.7	20	1134		0.7	20
2211		1.3	40			1556		3.9	120	1556		3.9	120	1624		3.9	120	1623		3.6	110
0245		3.6	110			2247		1.3	40	2247		1.3	40	2241		1.3	40	2336		1.0	30
1009		0.3	10			0353		3.9	120	0353		3.9	120	0439		3.9	120	0441		4.3	130
1538		3.9	120			1056		0.3	10	1056		0.0	0	1124		1.0	30	1226		1.3	40
2253		1.6	50			1626		3.9	120	1626		3.9	120	1656		3.6	110	1654		3.3	100
0323		3.6	110			2313		1.3	40	2313		1.3	40	2238		1.3	40	2238		1.3	40
1051		0.3	10			0428		3.9	120	0428		3.9	120	0511		3.6	110	0519		1.3	40
1613		3.9	120			1128		0.7	20	1128		0.7	20	1147		1.3	40	1330		1.6	50
2330		1.6	50			1700		3.6	110	1700		3.6	110	1721		3.6	110	1723		3.3	100
0404		3.6	110			2334		1.6	50	2334		1.6	50	2232		1.6	50	2173*		1.6	50
1130		0.7	20			0504		3.9	120	0504		3.9	120	0551		3.3	100	0630		1.3	40
1654		3.6	110			1156		1.0	30	1156		1.0	30	1241		1.6	50	1330		3.6	110
0004		2.0	60			1730		3.6	110	1730		3.6	110	1754		3.3	100	1723		3.3	100
0449		3.6	110			2334		1.6	50	2334		1.6	50	2243		1.6	50	2147*		1.6	50
1204		0.7	20			0543		3.6	110	0543		3.6	110	0630		3.3	100	1449*		2.0	60
1728		3.6	110			1236		1.3	40	1236		1.3	40	1111		2.0	60	0111		2.0	60
0047		2.0	60			1802		3.3	100	1802		3.3	100	1413		2.0	60	0256		1.3	40
0526		3.6	110			2321		1.6	50	2321		1.6	50	1828		3.0	90	0704		3.0	90
1245		1.0	30			0621		3.3	100	0621		3.3	100	2302		1.6	50	0953		2.3	70
1806		3.3	100			1336		1.6	50	1336		1.6	50	2302		1.6	50	1251*		3.0	90
0138		2.0	60			1839		3.0	90	1839		3.0	90	0023		2.0	60	0047		2.0	60
0609		3.3	100			0232		1.6	50	0232		1.6	50	0253		1.6	50	0408		1.3	40
1336		1.3	40			0706		3.0	90	0706		3.0	90	0723		3.0	90	1324		3.3	100
1851		3.0	90			1456		2.0	60	1456		2.0	60	1054		2.3	70	1734		2.3	70
0236		2.0	60			1919		3.0	90	1919		3.0	90	1217*		2.3	70	2019*		2.3	70
0702		3.0	90			0341		1.6	50	0341		1.6	50	0402		1.6	50	0309			

Rio de Janeiro, Brazil, 2020

Times and Heights of High and Low Waters

October					November					December														
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height		Time	Height								
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm
1 Th ○	0200	4.3	130	16 F ●	0200	4.3	130	1 Su	0249	4.3	130	16 M	0254	4.3	130	1 Tu	0304	3.9	120	16 W	0328	3.9	120	
	0854	0.3	10		0856	0.0	0		0934	0.7	20		1019	1.0	30		0953	1.0	30		1100	1.3	40	
	1426	4.3	130		1438	4.3	130		1456	4.3	130		1500	3.6	110		1502	3.9	120		1519	3.6	110	
	2108	0.7	20		2104	0.3	10		2138	0.7	20		2215	0.3	10		2154	0.7	20		2256	0.3	10	
2 F	0236	4.3	130	17 Sa	0232	4.6	140	2 M	0319	4.3	130	17 Tu	0334	3.9	120	2 W	0343	3.9	120	17 Th	0409	3.6	110	
	0926	0.3	10		0943	0.0	0		1006	1.0	30		1109	1.3	40		1034	1.3	40		1149	1.6	50	
	1458	4.3	130		1500	3.9	120		1524	3.9	120		1534	3.6	110		1536	3.9	120		1600	3.6	110	
	2134	0.7	20		2147	0.3	10		2208	0.7	20		2304	0.7	20		2236	0.7	20		2345	0.7	20	
3 Sa	0308	4.3	130	18 Su	0306	4.6	140	3 Tu	0356	3.9	120	18 W	0413	3.9	120	3 Th	0419	3.9	120	18 F	0458	3.6	110	
	0956	0.7	20		1030	0.7	20		1045	1.3	40		1202	1.6	50		1119	1.6	50		1234	2.0	60	
	1524	4.3	130		1524	3.9	120		1556	3.9	120		1606	3.6	110		1606	3.6	110		1643	3.6	110	
	2156	0.7	20		2228	0.7	20		2236	1.0	30		1606	3.6	110		2323	0.7	20					
4 Su	0343	4.3	130	19 M	0347	4.3	130	4 W	0428	3.9	120	19 Th	0000	0.7	20	4 F	0502	3.6	110	19 Sa	0036	0.7	20	
	1028	1.0	30		1119	1.0	30		1130	1.6	50		0502	3.6	110		1209	1.6	50		0543	3.3	100	
	1554	3.9	120		1556	3.6	110		1623	3.6	110		0947	2.6	80		1645	3.6	110		1317	2.0	60	
	2223	1.0	30		2315	0.7	20		2321	1.0	30		1300	2.0	60		1300	2.0	60		1724	3.3	100	
5 M	0411	3.9	120	20 Tu	0423	3.9	120	5 Th	0506	3.6	110	20 F	1651	3.3	100	5 Sa	0021	1.0	30	20 Su	0130	1.0	30	
	1056	1.0	30		1213	1.6	50		1226	1.6	50		0100	1.0	30		0553	3.3	100		0628	3.0	90	
	1619	3.9	120		1624	3.3	100		1656	3.3	100		0554	3.3	100		1308	2.0	60		1406	2.3	70	
	2232	1.0	30		1315*	2.0	60		1336	2.0	60		1100	2.6	80		1723	3.3	100		1813	3.3	100	
6 Tu	0449	3.9	120	21 W	0009	1.0	30	6 F	0030	1.3	40	21 Sa	1400*	2.3	70	6 Su	0126	1.0	30	21 M	0226	1.3	40	
	1134	1.3	40		0506	3.6	110		0556	3.3	100		0204	1.0	30		0653	3.3	100		0719	3.0	90	
	1651	3.6	110		0908	2.3	70		1336	2.0	60		0654	3.0	90		1411	2.0	60		1504	2.0	60	
	2228	1.3	40		1011	2.3	70		1734	3.0	90		1156	2.6	80		1811	3.0	90		1913	3.0	90	
7 W	0521	3.6	110	22 Th	0119	1.3	40	7 Sa	0151	1.3	40	22 Su	1502*	2.3	70	7 M	0234	1.0	30	22 Tu	0324	1.3	40	
	1232	1.6	50		0558	3.3	100		0658	3.0	90		0308	1.3	40		0823	3.0	90		0821	3.0	90	
	1717	3.3	100		0908	2.3	70		1449	2.0	60		0809	2.6	80		1513	2.0	60		1606	2.0	60	
	2224	1.3	40		1139	2.6	80		1819	3.0	90		1226	2.6	80		1917	3.0	90		2036	3.0	90	
8 Th	0604	3.3	100	23 F	0236	1.3	40	8 Su	0300	1.0	30	23 M	1606*	2.3	70	8 Tu	0339	0.7	20	23 W	0421	1.3	40	
	1353	2.0	60		0700	2.6	80		1126	3.0	90		0409	1.3	40		1119	3.3	100		0932	3.0	90	
	1754	3.0	90		0923	2.6	80		1558	2.0	60		1004	3.0	90		1615	1.6	50		1704	1.6	50	
	2354	1.6	50		1224	3.0	90		1939	2.6	80		1706	2.0	60		2100	3.0	90		2208	3.0	90	
9 F	0211	1.6	50	24 Sa	0000	2.0	60	9 M	0406	1.0	30	24 Tu	0409	1.3	40	9 W	0441	0.7	20	24 Th	0515	1.3	40	
	0702	3.0	90		0347	1.3	40		1202	3.3	100		1106	3.0	90		1158	3.3	100		1043	3.0	90	
	1006	2.6	80		1300	3.0	90		1700	1.6	50		1754	1.6	50		1713	1.3	40		1756	1.3	40	
	1149	2.6	80		1700	2.3	70		2311	3.0	90		2300	3.3	100		2256	3.3	100		2324	3.3	100	
10 Sa	0332	1.3	40	25 Su	0453	1.0	30	10 Tu	0508	0.7	20	25 W	0556	1.0	30	10 Th	0541	0.7	20	25 F	0604	1.3	40	
	1209	3.0	90		1308	3.0	90		1234	3.6	110		1143	3.3	100		1228	3.3	100		1139	3.3	100	
	1632	2.0	60		1758	2.0	60		1753	1.3	40		1834	1.3	40		1806	1.0	30		1839	1.0	30	
	2339	2.3	70		2234	3.0	90		2353	3.3	100		2356	3.6	110		2358	3.6	110					
11 Su	0439	1.0	30	26 M	0549	1.0	30	11 W	0604	0.3	10	26 Th	0639	1.0	30	11 F	0639	0.7	20	26 Sa	0019	3.3	100	
	1239	3.3	100		1230	3.3	100		1258	3.6	110		1219	3.6	110		1245	3.3	100		0653	1.3	40	
	1738	1.6	50		1838	1.6	50		1839	1.0	30		1908	1.0	30		1858	0.7	20		1223	3.3	100	
	2358	2.6	80		2339	3.3	100																	
12 M	0538	0.7	20	27 Tu	0634	0.7	20	12 Th	0028	3.6	110	27 F	0039	3.6	110	12 Sa	0043	3.6	110	27 Su	0102	3.6	110	
	1302	3.6	110		1230	3.3	100		0658	0.3	10		0719	1.0	30		0736	0.7	20		0736	1.3	40	
	1824	1.3	40		1909	1.3	40		1321	3.9	120		1254	3.6	110		1308	3.3	100		1302	3.6	110	
									1921	0.7	20		1943	0.7	20		1949	0.7	20		1954	0.7	20	
13 Tu	0028	3.3	100	28 W	0021	3.6	110	13 F	0102	3.9	120	28 Sa	0115	3.9	120	13 Su	0124	3.9	120	28 M	0143	3.9	120	
	0630	0.3	10		0713	0.7	20		0751	0.3	10		0758	1.0	30		0828	0.7	20		0815	1.0	30	
	1328	3.9	120		1258	3.6	110		1341	3.9	120		1326	3.9	120		1336	3.6	110		1339	3.6	110	
	1906	1.0	30		1941	1.0	30		2002	0.7	20		2015	0.7	20		2034	0.3	10		2030	0.3	10	
14 W	0056	3.6	110	29 Th	0100	3.9	120	14 Sa	0138	4.3	130	29 Su	0154	3.9	120	14 M	0206	3.9	120	29 Tu	0219	3.9	120	
	0719	0.0	0		0751	0.7	20		0839	0.3	10		0836	1.0	30		0921	1.0	30		0856	1.0	30	
	1353	4.3	130		1324	3.9	120		1404	3.9	120		1400	3.9	120		1408	3.6	110		1413	3.9	120	
	1949	0.7	20		2009	0.7	20		2047	0.3	10		2049	0.3	10		2049	0.3	10		2119	0.3	10	2106	0.3	10
15 Th	0126	3.9	120	30 F	0139	4.3	130	15 Su	0213	4.3	130	30 M	0228	3.9	120	15 Tu	0249	3.9	120	30 W	0300	3.9	120	
	0808	0.0	0		0824	0.7	20		0930	0.7	20		0911	1.0	30		1009	1.3	40		0939	1.0	30	
	1415	4.3	130		1358	3.9	120		1430	3.6	110		1432	3.9	120		1445	3.6	110		1451	3.9	120	
	2026	0.7	20		2039	0.7	20		●	2130	0.3		10	●	2121		0.3	10	2206		0.3	10	2145	0.3	10
			31 Sa	0211	4.3	130										31 Th	0338	3.9	120					
				0858	0.7	20											1019	1.3	40					
				1426	4.3	130											1523	3.9	120					
				2108	0.7	20											2226	0.3	10					

Time meridian 45° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.

Heights are referred to the chart datum of soundings.

* See Page 320 for the remaining tides on this day.

Santos, Brazil, 2020

Times and Heights of High and Low Waters

January			February			February			March			March																										
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																						
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm																			
1 W	0100	1.0	30		16 Th	0728	3.3	100		1 Sa	0158	1.6	50		16 Su	0513	3.0	90		1 Su	0106	1.6	50		16 M	0104	2.6	80										
	0606	3.6	110			1319	2.0	60		●	1153	2.0	60			0911	2.3	70		1 Su	0558	3.3	100		○	0408	3.0	90										
	1113	2.0	60			1819	3.3	100				2149	3.3	100			1149*	2.6	80			1123	1.6	50			0900	2.0	60									
	1643	3.3	100													1453*	2.0	60				1826	3.3	100		○	1121	2.3	70									
2 Th	0151	1.3	40		17 F	0145	1.3	40		2 Su	0258	1.6	50		17 M	0002	3.0	90		2 M	0209	2.0	60		17 Tu	0049	3.3	100			1419*	2.0	60					
	0658	3.6	110			1034	3.0	90			0741	3.0	90			0311	2.6	80			0639	3.0	90			0845	2.0	60										
	1156	2.3	70		●	1419	2.3	70			1324	2.3	70			0500	2.6	80			●	1219	2.0	60			1208	2.6	80									
	1713	3.0	90			2000	3.3	100			2308	3.6	110			0902	2.3	70				2302	3.3	100			1554	1.6	50									
	2126	3.3	100												1239*	3.0	90			3 Tu	0345	2.3	70		18 W	0106	3.6	110										
3 F	0247	1.3	40		18 Sa	0236	1.6	50		3 M	0404	1.6	50		18 Tu	0058	3.6	110		3 Tu	0751	2.6	80		18 W	0821	2.0	60			1245	3.0	90					
	0758	3.3	100			1149	3.0	90			0856	3.0	90			0849	2.3	70				1632	2.0	60			1719	1.3	40									
○	1323	2.3	70			1541	2.0	60			1721	2.0	60			1309	3.3	100																				
	2236	3.3	100			2221	3.3	100							1743	1.3	40																					
4 Sa	0341	1.3	40		19 Su	0341	2.0	60		4 Tu	0006	3.9	120		19 W	0128	3.9	120		4 W	0008	3.9	120		19 Th	0123	3.9	120			1817	1.0	30					
	0911	3.3	100			1241	3.3	100			0508	1.6	50			0845	2.0	60				0521	2.0	60			0813	2.0	60									
	1654	2.3	70			1658	1.6	50			1221	3.0	90			1339	3.6	110				1232	3.0	90			1306	3.6	110									
	2324	3.6	110			2349	3.6	110			1808	1.6	50			1836	1.0	30				1808	1.6	50			1817	1.0	30									
5 Su	0438	1.3	40		20 M	0500	2.3	70		5 W	0100	4.3	130		20 Th	0149	4.3	130		5 Th	0100	4.3	130		20 F	0134	4.3	130			1900	0.7	20					
	1041	3.3	100			0756	2.3	70			0609	1.6	50			0826	2.0	60				0630	1.6	50			0754	2.0	60									
	1739	1.6	50			1317	3.3	100			1309	3.3	100			1400	3.9	120				1308	3.3	100			1330	3.9	120									
						1756	1.3	40			1849	1.0	30			1919	0.3	10				1851	1.0	30			1900	0.7	20									
6 M	0011	3.9	120		21 Tu	0049	3.9	120		6 Th	0149	4.6	140		21 F	0204	4.3	130		6 F	0147	4.9	150		21 Sa	0143	4.3	130			1941	0.3	10					
	0526	1.3	40			0624	2.3	70			0708	1.3	40			0802	1.6	50				0719	1.3	40			0741	1.6	50									
	1158	3.6	110			1349	3.6	110			1345	3.6	110			1417	4.3	130				1343	3.9	120			1353	4.3	130									
	1811	1.3	40			1843	1.0	30			1932	0.7	20			2002	0.0	0				1934	0.3	10			1941	0.3	10									
7 Tu	0058	4.3	130		22 W	0130	3.9	120		7 F	0232	4.9	150		22 Sa	0223	4.6	140		7 Sa	0226	5.2	160		22 Su	0200	4.6	140			2017	0.0	0					
	0615	1.0	30			0723	2.0	60			0800	1.0	30			0821	1.6	50				0804	1.0	30			0800	1.3	40									
	1245	3.6	110			1409	3.6	110			1415	3.9	120			1436	4.3	130				1413	4.3	130			1415	4.6	140									
	1849	1.0	30			1928	0.3	10			2019	0.3	10			2041	0.0	0				2017	0.0	0			2017	0.0	0									
8 W	0143	4.6	140		23 Th	0204	4.3	130		8 Sa	0315	4.9	150		23 Su	0245	4.6	140		8 Su	0306	5.2	160		23 M	0221	4.9	150			2058	0.0	0					
	0706	1.0	30			0802	2.0	60			0851	1.0	30			0851	1.3	40				0843	0.7	20			0826	1.0	30									
	1323	3.9	120			1424	3.9	120			1441	4.3	130			1458	4.6	140				1439	4.6	140			1445	4.9	150									
	1930	0.7	20			2011	0.3	10			2106	0.0	0		●	2119	0.0	0				2058	-0.3	-10			2058	0.0	0									
9 Th	0224	4.6	140		24 F	0230	4.6	140		9 Su	0354	4.9	150		24 M	0308	4.9	150		9 M	0339	5.2	160		24 Tu	0247	4.9	150			2136	0.0	0					
	0758	1.0	30			0836	1.6	50			0936	1.0	30			0919	1.0	30				0921	0.7	20			0856	1.0	30									
	1354	3.9	120		●	1439	3.9	120		○	1508	4.6	140			1519	4.6	140				1502	4.9	150			1509	4.9	150									
	2015	0.3	10			2058	0.0	0			2151	0.0	0			2200	0.0	0				2138	-0.3	-10		●	2136	0.0	0									
10 F	0308	4.9	150		25 Sa	0300	4.6	140		10 M	0430	4.9	150		25 Tu	0336	4.6	140		10 Tu	0408	4.9	150		25 W	0309	4.9	150			2209	0.3	10					
	0849	1.0	30			0906	1.6	50			1015	1.0	30			0947	1.0	30				0958	0.7	20			0926	1.0	30									
	1424	4.3	130			1458	4.3	130			1534	4.6	140			1545	4.6	140				1523	4.9	150			1538	4.9	150									
○	2106	0.3	10			2141	0.0	0			2232	0.0	0			2238	0.3	10				2213	0.0	0			2209	0.3	10									
11 Sa	0351	4.9	150		26 Su	0324	4.6	140		11 Tu	0456	4.6	140		26 W	0402	4.6	140		11 W	0423	4.6	140		26 Th	0336	4.6	140			2243	0.7	20					
	0938	1.0	30			0939	1.6	50			1054	1.0	30			1008	1.3	40				1034	0.7	20			0951	1.0	30									
	1458	4.3	130			1517	4.3	130			1602	4.6	140			1608	4.6	140				1551	4.9	150			1602	4.6	140									
	2156	0.0	0			2221	0.0	0			2309	0.3	10			2311	0.7	20				2251	0.3	10			2243	0.7	20									
12 Su	0432	4.6	140		27 M	0356	4.6	140		12 W	0515	4.3	130		27 Th	0428	4.3	130		12 Th	0432	3.9	120		27 F	0400	4.3	130			2311	1.0	30					
	1023	1.3	40			1002	1.3	40			1128	1.3	40			1023	1.3	40				1108	1.0	30			1009	1.0	30									
	1530	4.3	130			1543	4.3	130			1632	4.3	130			1636	4.3	130				1615	4.6	140			1630	4.6	140									
	2245	0.3	10			2302	0.3	10			2349	0.7	20			2347	1.0	30				2319	1.0	30			2311	1.0	30									
13 M	0517	4.6	140		28 Tu	0424	4.6	140		13 Th	0530	3.6	110		28 F	0458	4.3	130		13 F	0443	3.6	110		28 Sa	0421	4.3	130			2343	1.3	40</					

Santos, Brazil, 2020

Times and Heights of High and Low Waters

April					May					June																																												
	Time		Height			Time		Height			Time		Height			Time		Height																																				
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm	h	m	ft	cm																															
1 W O	0349	2.6	80		16 Th	0056	3.6	110		1 F	0606	2.0	60		16 Sa	0656	2.3	70		1 M	0051	4.3	130		16 Tu	0619	1.6	50		17 W	0036	3.6	110		18 Th	0109	3.9	120		19 F	0139	3.9	120		20 Sa	0202	4.3	130		21 Su	0224	4.3	130	
	0719	2.6	80			0743	2.3	70			1111	3.3	100			1132	3.6	110			0619	1.3	40			0639	1.3	40			0619	1.6	50			0738	0.7	20																
	1056	2.6	80			1154	3.0	90			1623	1.3	40			1639	1.0	30			1156	3.9	120			0715	0.7	20			0738	0.7	20			0811	0.7	20			0854	0.7	20											
	1523	2.0	60			1630	1.3	40			0026	4.6	140			2358	3.6	110			1736	1.3	40			1249	3.9	120			1300	4.3	130			1508	4.6	140			1549	4.6	140			2138	1.0	30						
2 Th	0000	3.9	120		17 F	0058	3.6	110		2 Sa	0026	4.6	140		17 Su	0638	2.0	60		2 Tu	0130	4.3	130		17 W	0036	3.6	110		18 Th	0109	3.9	120		19 F	0139	3.9	120		20 Sa	0202	4.3	130		21 Su	0224	4.3	130						
	0615	2.0	60			0734	2.0	60			0630	1.6	50			1206	3.9	120			0645	1.0	30			0639	1.3	40			0738	0.7	20			0811	0.7	20			0854	0.7	20											
	1156	3.0	90			1219	3.6	110			1156	3.6	110			1732	1.0	30			1236	4.3	130			1236	4.3	130			1300	4.3	130			1426	4.6	140			1508	4.6	140			1549	4.6	140						
	1736	1.3	40			1732	1.0	30			1741	1.0	30			0026	4.6	140			1845	1.3	40			1845	1.3	40			1830	1.0	30			1921	1.0	30			2054	1.0	30			2138	1.0	30						
3 F	0051	4.6	140		18 Sa	0056	3.9	120		3 Su	0108	4.9	150		18 M	0026	3.9	120		3 W	0204	4.3	130		18 Th	0109	3.9	120		19 F	0139	3.9	120		20 Sa	0202	4.3	130		21 Su	0224	4.3	130											
	0647	1.6	50			0715	2.0	60			0653	1.3	40			0638	1.3	40			0715	0.7	20			0706	1.0	30			0738	0.7	20			0811	0.7	20			0854	0.7	20											
	1239	3.6	110			1249	3.9	120			1236	4.3	130			1245	4.3	130			1317	4.3	130			1317	4.3	130			1345	4.6	140			1426	4.6	140			1508	4.6	140		1549	4.6	140							
	1836	1.0	30			1823	0.7	20			1843	0.7	20			1823	0.7	20			1949	1.3	40			1949	1.3	40			1921	1.0	30			2008	1.0	30			2054	1.0	30		2138	1.0	30							
4 Sa	0132	4.9	150		19 Su	0108	4.3	130		4 M	0149	4.9	150		19 Tu	0100	4.3	130		4 Th	0232	4.3	130		19 F	0139	3.9	120		20 Sa	0202	4.3	130		21 Su	0224	4.3	130																
	0717	1.3	40			0709	1.3	40			0719	1.0	30			0700	1.0	30			0753	0.3	10			0738	0.7	20			0811	0.7	20			0854	0.7	20		0943	0.3	10												
	1313	3.9	120			1317	4.3	130			1311	4.6	140			1323	4.6	140			1358	4.6	140			1358	4.6	140			1426	4.6	140			1508	4.6	140		1549	4.6	140												
	1923	0.3	10			1906	0.3	10			1934	0.7	20			1909	0.7	20			2039	1.3	40			2039	1.3	40			2008	1.0	30			2054	1.0	30		2138	1.0	30												
5 Su	0209	5.2	160		20 M	0128	4.6	140		5 Tu	0221	4.9	150		20 W	0128	4.3	130		5 F	0249	3.9	120		20 Sa	0202	4.3	130		21 Su	0224	4.3	130																					
	0749	1.0	30			0728	1.0	30			0749	0.7	20			0726	1.0	30			0834	0.3	10			0811	0.7	20			0854	0.7	20		0943	0.3	10		1036	0.3	10													
	1347	4.6	140			1353	4.6	140			1343	4.6	140			1400	4.6	140			1436	4.6	140			1436	4.6	140			1508	4.6	140		1549	4.6	140		1717	4.6	140													
	2002	0.3	10			1949	0.3	10			2017	0.7	20			1954	0.7	20			2119	1.6	50			2119	1.6	50			2054	1.0	30		2138	1.0	30		2300	1.3	40													
6 M	0247	5.2	160		21 Tu	0156	4.6	140		6 W	0249	4.6	140		21 Th	0156	4.3	130		6 Sa	0256	3.9	120		21 Su	0224	4.3	130																										
	0821	0.7	20			0756	1.0	30			0823	0.3	10			0758	0.7	20			0919	0.3	10			0854	0.7	20		0943	0.3	10		1036	0.3	10		1171	4.6	140														
	1415	4.6	140			1423	4.9	150			1415	4.6	140			1439	4.9	150			1513	4.6	140			1513	4.6	140		1549	4.6	140		1717	4.6	140		1886	1.3	40														
	2041	0.0	0			2028	0.3	10			2056	0.7	20			2036	0.7	20			2156	1.6	50			2156	1.6	50		2054	1.0	30		2138	1.0	30		2300	1.3	40														
7 Tu	0315	4.9	150		22 W	0219	4.6	140		7 Th	0306	4.3	130		22 F	0217	4.3	130		7 Su	0304	3.9	120		22 M	0253	4.3	130																										
	0856	0.3	10			0826	0.7	20			0900	0.3	10			0830	0.7	20			1006	0.3	10			0943	0.3	10		1036	0.3	10		1171	4.6	140		1306	0.3	10														
	1441	4.9	150			1456	4.9	150			1447	4.9	150			1511	4.9	150			1553	4.3	130			1553	4.3	130		1632	4.6	140		1886	1.3	40		1886	1.3	40														
	2117	0.0	0			2106	0.3	10			2132	1.0	30			2113	0.7	20			2224	2.0	60			2224	2.0	60		2217	1.3	40		2300	1.3	40		2343	1.6	50														
8 W	0336	4.6	140		23 Th	0245	4.6	140		8 F	0311	3.9	120		23 Sa	0239	4.3	130		8 M	0313	3.6	110		23 Tu	0317	3.9	120																										
	0932	0.3	10			0858	0.7	20			0943	0.3	10			0906	0.7	20			1058	0.3	10			1036	0.3	10		1171	4.6	140		1306	0.3	10		1508	4.6	140														
	1506	4.9	150			1524	4.9	150			1517	4.6	140			1549	4.6	140			1626	4.3	130			1626	4.3	130		1717	4.6	140		1886	1.3	40		1886	1.3	40														
	2154	0.3	10			2141	0.3	10			2206	1.3	40			2151	1.0	30			2254	2.0	60			2254	2.0	60		2300	1.3	40		2343	1.6	50		2343	1.6	50														
9 Th	0347	4.3	130		24 F	0306	4.6	140		9 Sa	0319	3.9	120		24 Su	0302	4.3	130		9 Tu	0328	3.6	110		24 W	0353	3.9	120																										
	1008	0.3	10			0928	1.0	30			1026	0.3	10			0947	0.7	20			1147	0.7	20			1126	0.7	20		1217	0.7	20		1306	0.7	20		1508	4.6	140														
	1534	4.9	150			1554	4.9	150			1556	4.6	140			1623	4.6	140			1704	3.9	120			1704	3.9	120		1806	4.3	130		1886	1.3	40		1886	1.3	40														
	2226	1.0	30			2213	0.7	20			2243	1.6	50			2226	1.3	40			2311	2.3	70			2311	2.3	70		2343	1.6	50		2343	1.6	50		2343	1.6	50														
10 F	0354	3.9	120		25 Sa	0326	4.3	130		10 Su	0332	3.6	110		25 M	0324	3.9	120		10 W	0339	3.6	110		25 Th	0426	3.6	110																										
	1049	0.7	20			0956	1.0	30			1111	0.7	20			1036	1.0	30			1232	0.7	20			1																												

Santos, Brazil, 2020

Times and Heights of High and Low Waters

July					August					September														
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height											
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm										
1 W	0121	3.6	110	16 Th	0038	3.3	100	1 Sa	0219	3.9	120	16 Su	0151	3.6	110									
	0617	1.3	40		0630	1.6	50		0723	0.3	10		0724	0.7	20	1 Tu	0230	4.6	140					
	1224	3.9	120		1251	3.9	120		1426	4.3	130		1419	4.6	140		0823	0.0	0	16 W	0223	4.6	140	
	1811	2.0	60		1802	1.6	50		2117	2.0	60		1954	1.3	40		2054	1.3	40		0828	0.0	0	
2 Th	0158	3.9	120	17 F	0115	3.6	110	2 Su	0239	3.9	120	17 M	0213	4.3	130		2 W	0249	4.6		140	17 Th	0245	4.9	150
	0654	1.0	30		0656	1.0	30		0804	0.0	0		0802	0.3	10	0900		-0.3	-10		0908		-0.3	-10
	1317	3.9	120		1338	4.3	130		1451	4.3	130		1502	4.9	150	1500		4.6	140	1553	4.9		150	
	2038	2.0	60		1902	1.3	40		2109	1.6	50		2043	1.0	30	2043		1.0	30	2119	1.0		30	2141	0.3	10
3 F	0226	3.9	120	18 Sa	0145	3.6	110	3 M	0253	4.3	130	18 Tu	0238	4.3	130	3 Th	0306	4.9	150	18 F	0308	4.9	150	
	0734	0.3	10		0728	0.7	20		0845	0.0	0		0843	0.0	0		0941	0.0	0		0947	0.0	0	
	1408	4.3	130		1423	4.6	140		1509	4.6	140		1543	5.2	160		1524	4.6	140		1524	4.6	140	
	2053	2.0	60		1956	1.3	40		2124	1.6	50		2123	0.7	20		2147	1.0	30		2147	1.0	30	2215	0.7	20
4 Sa	0247	3.9	120	19 Su	0209	3.9	120	4 Tu	0302	4.3	130	19 W	0300	4.6	140	4 F	0328	4.9	150	19 Sa	0332	4.9	150	
	0815	0.3	10		0806	0.3	10		0920	0.0	0		0926	-0.3	-10		1019	0.0	0		1024	0.3	10	
	1445	4.3	130		1508	4.6	140		1596	4.6	140		1621	4.9	150		1554	4.6	140		1628	4.3	130	
	2119	1.6	50		2047	1.0	30		2149	1.3	40		2202	0.7	20		2209	1.0	30		2253	0.7	20	
5 Su	0256	3.9	120	20 M	0232	4.3	130	5 W	0315	4.6	140	20 Th	0323	4.6	140	5 Sa	0354	4.6	140	20 Su	0400	4.9	150	
	0902	0.0	0		0851	0.3	10		1008	0.0	0		1009	0.0	0		1058	0.3	10		1102	1.0	30	
	1519	4.3	130		1553	4.9	150		1556	4.6	140		1653	4.9	150		1619	4.6	140		1641	3.9	120	
	2145	1.6	50		2132	1.0	30		2209	1.3	40		2239	0.7	20		2226	1.3	40		2324	1.0	30	
6 M	0302	3.9	120	21 Tu	0258	4.3	130	6 Th	0338	4.6	140	21 F	0351	4.6	140	6 Su	0417	4.6	140	21 M	0430	4.6	140	
	0949	0.0	0		0938	0.0	0		1051	0.0	0		1053	0.0	0		1136	1.0	30		1139	1.3	40	
	1549	4.3	130		1634	4.9	150		1621	4.6	140		1715	4.6	140		1649	4.3	130		1651	3.3	100	
	2208	1.6	50		2211	1.0	30		2232	1.3	40		2309	1.0	30		2232	1.3	40		2232	1.3	40	
7 Tu	0315	3.9	120	22 W	0323	4.3	130	7 F	0358	4.3	130	22 Sa	0415	4.6	140	7 M	0443	3.9	120	22 Tu	0002	1.3	40	
	1036	0.0	0		1024	0.0	0		1132	0.3	10		1130	0.7	20		1211	1.3	40		0502	3.9	120	
	1615	4.3	130		1713	4.6	140		1653	4.3	130		1730	3.9	120		1713	3.9	120		1213	2.0	60	
	2234	1.6	50		2253	1.0	30		2245	1.3	40		2347	1.3	40		2238	1.6	50		1647	3.3	100	
8 W	0336	3.9	120	23 Th	0356	4.3	130	8 Sa	0419	4.3	130	23 Su	0449	4.3	130	8 Tu	0504	3.6	110	23 W	0051	1.6	50	
	1117	0.3	10		1111	0.3	10		1211	0.7	20		1208	1.0	30		1256	1.6	50		0543	3.6	110	
	1649	4.3	130		1747	4.6	140		1721	4.3	130		1745	3.6	110		1745	3.6	110		0911	2.6	80	
	2254	2.0	60		2328	1.3	40		2249	1.6	50		2249	1.6	50		2254	1.6	50		1058	3.0	90	
9 Th	0354	3.9	120	24 F	0426	4.3	130	9 Su	0443	3.9	120	24 M	0019	1.6	50	9 W	0530	3.3	100	24 Th	0156	1.6	50	
	1202	0.7	20		1158	0.3	10		1256	1.3	40		0519	3.9	120		1353	2.0	60		0651	3.0	90	
	1719	4.3	130		1821	3.9	120		1754	3.9	120		1251	1.6	50		1813	3.3	100		0854	2.6	80	
	2304	2.0	60		2258	1.6	50		2258	1.6	50		1751	3.3	100		2313	2.0	60		1202	3.3	100	
10 F	0411	3.9	120	25 Sa	0004	1.6	50	10 M	0502	3.3	100	25 Tu	0104	1.6	50	10 Th	1051	3.3	100	25 F	0326	1.6	50	
	1249	0.7	20		0502	3.9	120		1343	1.6	50		0600	3.3	100		1506	2.3	70		1247	3.6	110	
	1756	3.9	120		1241	0.7	20		1824	3.6	110		1338	2.3	70		1858	3.0	90		2023	2.0	60	
	2309	2.0	60		1847	3.6	110		2313	2.0	60		1728	3.0	90		2309	2.3	70		2023	2.0	60	
11 Sa	0426	3.6	110	26 Su	0051	2.0	60	11 Tu	0506	3.0	90	26 W	0213	2.0	60	11 F	0054	2.3	70	26 Sa	0030	3.0	90	
	1334	1.0	30		0551	3.6	110		0724	3.0	90		0745	3.0	90		0547	2.3	70		0509	1.3	40	
	1832	3.6	110		1321	1.3	40		0941	3.0	90		0904	3.0	90		1151	3.6	110		1306	3.9	120	
	2323	2.0	60		1909	3.3	100		1436	2.0	60		1436	2.0	60		1639	2.3	70		2015	2.0	60	
12 Su	0441	3.3	100	27 M	0143	2.0	60	12 W	0404	2.6	80	27 Th	0023	2.6	80	12 Sa	0032	3.0	90	27 Su	0058	3.6	110	
	0851	3.0	90		0711	3.3	100		0611	2.6	80		0413	2.0	60		0611	1.6	50		0604	1.0	30	
	1419	1.3	40		1406	1.6	50		1100	3.3	100		1243	3.6	110		1238	4.3	130		1321	3.9	120	
	1911	3.6	110		2100*	2.6	80		1536	2.0	60		2100	2.0	60		1804	2.0	60		2011	2.0	60	
13 M	0428	2.6	80	28 Tu	0308	2.3	70	13 Th	0126	2.6	80	28 F	0104	3.3	100	13 Su	0058	3.3	100	28 M	0119	3.9	120	
	0624	2.6	80		1026	3.3	100		0611	2.0	60		0549	1.3	40		0639	1.0	30		0641	0.7	20	
	1019	3.3	100		1502	2.0	60		1158	3.6	110		1319	3.9	120		1319	4.6	140		1328	4.3	130	
	1509	1.6	50		1823	2.6	80		1643	2.0	60		2058	2.0	60		1902	1.6	50		1945	1.6	50	
14 Tu	0049	2.6	80	29 W	0038	3.0	90	14 F	0100	3.0	90	29 Sa	0138	3.6	110	14 M	0126	3.9	120	29 Tu	0139	4.3	130	
	0608	2.3	70		0504	2.0	60		0628	1.6	50		0634	1.0	30		0713	0.7	20		0715	0.3	10	
	1111	3.6	110		1153	3.3	100		1247	3.9	120		1351	4.3	130		1402	4.9	150		1343	4.6	140	
	1606	1.6	50		1800*	2.6	80		1754	2.0	60		2100	2.0	60		1945	1.3	40		1949	1.3	40	
15 W	0613	2.0	60	30 Th	0117	3.3	100	15 Sa	0123	3.3	100	30 Su	0158	3.9	120	15 Tu	0156	4.3	130	30 W	0200	4.6	140	
	1202	3.9	120		0602	1.3	40		0653	1.0	30		0709	0.3	10		0749	0.0	0		0754	0.0	0	
	1704	1.6	50		1258	3.6	110		1334	4.3	130		1409	4.3	130		1445	5.2	160		1402	4.6	140	
					2106	2.0	60		1858	1.6	50		2049	2.0	60		2026	1.0	30		2013	1.0	30	
			31 F	0154	3.6	110				31 M	0215	4.3	130											
				0643	1.0	30					0747	0.0	0											
				1349	3.9	120					1423	4.6	140											
				2117	2.0	60					2038	1.6	50											

Time meridian 45° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.

Heights are referred to the chart datum of soundings.

* See Page 320 for the remaining

Santos, Brazil, 2020

Times and Heights of High and Low Waters

October				November				December			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft	h m	ft	h m	ft	h m	ft	h m	ft	h m	ft
1 Th	0223 4.9 150 0830 0.0 0 1426 4.6 140 2045 1.0 30	16 F	0219 4.9 150 0839 0.0 0 1517 4.6 140 2109 0.3 10	1 Su	0300 4.9 150 0909 0.7 20 1447 4.6 140 2109 0.7 20	16 M	0256 4.9 150 0932 1.3 40 1504 3.6 110 2202 0.3 10	1 Tu	0315 4.6 140 0915 1.0 30 1441 4.3 130 2121 0.7 20	16 W	0324 4.3 130 0958 2.0 60 1502 3.6 110 2232 0.3 10
2 F	0251 4.9 150 0908 0.0 0 1454 4.6 140 2115 1.0 30	17 Sa	0247 5.2 160 0917 0.3 10 1534 4.3 130 2149 0.3 10	2 M	0328 4.9 150 0945 0.7 20 1508 4.3 130 2138 1.0 30	17 Tu	0330 4.6 140 1009 1.6 50 1515 3.6 110 2251 0.7 20	2 W	0351 4.6 140 0956 1.3 40 1506 4.3 130 2204 1.0 30	17 Th	0400 4.3 130 1032 2.0 60 1517 3.6 110 2315 0.3 10
3 Sa	0315 4.9 150 0947 0.3 10 1517 4.6 140 2143 1.0 30	18 Su	0311 4.9 150 0956 0.7 20 1545 3.9 120 2226 0.3 10	3 Tu	0358 4.6 140 1017 1.3 40 1534 4.3 130 2208 1.0 30	18 W	0404 4.3 130 1053 2.3 70 1526 3.6 110 2338 0.7 20	3 Th	0426 4.3 130 1036 1.3 40 1538 3.9 120 2256 1.0 30	18 F	0438 3.9 120 1058 2.3 70 1536 3.6 110
4 Su	0343 4.9 150 1021 0.7 20 1547 4.3 130 2204 1.0 30	19 M	0345 4.9 150 1034 1.3 40 1554 3.6 110 2306 0.7 20	4 W	0426 4.3 130 1053 1.6 50 1558 3.9 120 2245 1.3 40	19 Th	0447 3.9 120 1121 2.6 80 1528 3.3 100	4 F	0511 3.9 120 1119 1.6 50 1609 3.6 110 2351 1.0 30	19 Sa	0002 0.7 20 0511 3.9 120 1117 2.3 70 1554 3.6 110
5 M	0408 4.6 140 1054 1.0 30 1608 4.3 130 2217 1.3 40	20 Tu	0413 4.6 140 1108 2.0 60 1600 3.3 100 2353 1.0 30	5 Th	0506 3.9 120 1136 2.0 60 1624 3.6 110 2341 1.3 40	20 F	0023 1.0 30 0528 3.6 110 0913 3.0 90 1156 2.6 80 1524 3.3 100	5 Sa	0615 3.9 120 1211 2.0 60 1656 3.3 100	20 Su	0051 1.0 30 0556 3.6 110 1130 2.3 70 1611 3.3 100
6 Tu	0436 4.3 130 1126 1.6 50 1636 3.9 120 2230 1.3 40	21 W	0454 3.9 120 1151 2.3 70 1551 3.3 100	6 F	0606 3.6 110 1234 2.3 70 1700 3.3 100	21 Sa	0113 1.0 30 0623 3.3 100 0919 3.0 90 1117 3.0 90 1245* 3.0 90 1524 3.3 100	6 Su	0051 1.0 30 0826 3.6 110 1323 2.3 70 1917 3.0 90	21 M	0139 1.0 30 0647 3.3 100 1143 2.6 80 1643 3.3 100 2045 3.0 90 0230 1.3 40
7 W	0504 3.9 120 1204 2.0 60 1700 3.6 110 2300 1.6 50	22 Th	0041 1.3 40 0536 3.6 110 0854 3.0 90 1058 3.0 90 1241* 3.0 90	7 Sa	0054 1.6 50 0930 3.3 100 1404 2.3 70 1900 2.6 80	22 Su	0211 1.3 40 0756 3.0 90 0956 3.0 90 1154 3.0 90 1409* 3.0 90	7 M	0151 1.0 30 1006 3.6 110 1508 2.3 70 2143 3.3 100	22 Tu	0230 1.3 40 0749 3.3 100 1345 2.6 80 2217 3.3 100
8 Th	0549 3.3 100 1304 2.3 70 1732 3.3 100	23 F	0139 1.3 40 0643 3.0 90 0849 3.0 90 1158 3.3 100 1404* 3.3 100	8 Su	0213 1.6 50 1053 3.9 120 1649 2.3 70 2232 3.3 100	23 M	0311 1.3 40 1028 3.3 100 1843 2.6 80 2304 3.3 100	8 Tu	0256 1.3 40 1113 3.9 120 1643 2.0 60 2238 3.6 110	23 W	0326 1.3 40 0904 3.3 100 1615 2.3 70 2308 3.6 110
9 F	0011 2.0 60 1015 3.3 100 1441 2.3 70 1824 2.6 80	24 Sa	0253 1.6 50 1221 3.6 110 1938 2.3 70 2336 3.0 90	9 M	0347 1.3 40 1147 4.3 130 1741 2.0 60 2321 3.6 110	24 Tu	0411 1.0 30 1106 3.6 110 1738 2.3 70 2343 3.9 120	9 W	0400 1.0 30 1206 3.9 120 1730 1.6 50 2324 3.9 120	24 Th	0423 1.3 40 1030 3.3 100 1723 2.0 60 2356 3.9 120
10 Sa	0241 2.0 60 1124 3.6 110 1706 2.3 70 2323 3.0 90	25 Su	0406 1.3 40 1234 3.6 110 1928 2.3 70	10 Tu	0504 1.0 30 1232 4.6 140 1813 1.3 40	25 W	0506 1.0 30 1143 3.6 110 1754 1.6 50	10 Th	0502 1.0 30 1253 4.3 130 1806 1.3 40	25 F	0515 1.3 40 1139 3.6 110 1804 1.3 40
11 Su	0519 1.6 50 1213 4.3 130 1808 2.0 60	26 M	0000 3.3 100 0508 1.0 30 1230 3.9 120 1906 2.0 60	11 W	0004 4.3 130 0556 0.7 20 1311 4.6 140 1843 1.0 30	26 Th	0019 4.3 130 0554 0.7 20 1217 3.9 120 1823 1.3 40	11 F	0009 4.3 130 0558 1.3 40 1334 4.3 130 1845 1.0 30	26 Sa	0041 4.3 130 0604 1.0 30 1226 3.6 110 1839 1.0 30
12 M	0009 3.6 110 0608 1.0 30 1258 4.6 140 1845 1.3 40	27 Tu	0026 3.9 120 0556 0.7 20 1238 3.9 120 1839 1.6 50	12 Th	0043 4.6 140 0641 0.7 20 1351 4.6 140 1917 0.7 20	27 F	0058 4.6 140 0638 0.7 20 1254 4.3 130 1858 1.0 30	12 Sa	0053 4.6 140 0653 1.3 40 1406 3.9 120 1924 0.7 20	27 Su	0121 4.6 140 0653 1.0 30 1302 3.9 120 1913 1.0 30
13 Tu	0049 3.9 120 0645 0.7 20 1339 4.9 150 1921 1.0 30	28 W	0056 4.3 130 0638 0.3 10 1300 4.3 130 1900 1.3 40	13 F	0117 4.6 140 0724 0.7 20 1421 4.6 140 1956 0.7 20	28 Sa	0138 4.6 140 0717 0.7 20 1323 4.3 130 1932 0.7 20	13 Su	0134 4.6 140 0743 1.3 40 1430 3.9 120 2008 0.3 10	28 M	0202 4.6 140 0734 1.0 30 1334 3.9 120 1953 0.7 20
14 W	0121 4.6 140 0723 0.3 10 1415 4.9 150 1956 0.7 20	29 Th	0126 4.6 140 0715 0.3 10 1324 4.6 140 1930 1.0 30	14 Sa	0151 4.9 150 0808 0.7 20 1445 4.3 130 2036 0.3 10	29 Su	0209 4.9 150 0758 0.7 20 1351 4.3 130 2006 0.7 20	14 M	0211 4.6 140 0834 1.6 50 1441 3.6 110 2056 0.3 10	29 Tu	0239 4.6 140 0817 1.0 30 1400 4.3 130 2032 0.7 20
15 Th	0153 4.9 150 0800 0.0 0 1451 4.9 150 2032 0.7 20	30 F	0200 4.9 150 0754 0.3 10 1354 4.6 140 2004 0.7 20	15 Su	0221 4.9 150 0851 1.0 30 1458 3.9 120 2117 0.3 10	30 M	0247 4.9 150 0839 0.7 20 1413 4.3 130 2043 0.7 20	15 Tu	0251 4.6 140 0917 1.6 50 1451 3.6 110 2145 0.3 10	30 W	0315 4.6 140 0900 1.0 30 1428 4.3 130 2117 0.7 20
		31 Sa	0230 4.9 150 0834 0.3 10 1419 4.6 140 2039 0.7 20						31 Th	0353 4.6 140 0945 1.0 30 1500 4.3 130 2204 0.3 10	

Time meridian 45° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.

Heights are referred to the chart datum of soundings.

* See Page 320 for the remaining tides on this day.

Buenos Aires, Argentina, 2020

Times and Heights of High and Low Waters

January				February				March										
Time	Height			Time	Height			Time	Height			Time	Height					
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm				
1 W	0731	2.3	70		1 Sa	0050	4.3	130		1 Su	0014	3.9	120		16 M	0112	4.6	140
	1121	2.6	80			0748	2.3	70			0829	2.0	60			0744	2.3	70
	1745	1.3	40			1125	2.6	80			1246	3.3	100			1226	3.9	120
2 Th	0039	4.3	130		2 Su	0128	3.9	120		2 M	0047	3.9	120		17 Tu	0206	4.3	130
	0811	2.0	60			0824	2.3	70			0920	2.0	60			0832	2.3	70
	1148	2.3	70			1205	2.6	80			1349	3.6	110			1330	3.9	120
3 F	0124	4.3	130		3 M	0205	3.9	120		3 Tu	0118	3.9	120		18 W	0259	3.9	120
	0854	2.0	60			0902	2.3	70			1012	2.0	60			0924	2.3	70
	1212	2.3	70			1254	2.6	80			1500	3.6	110			1439	3.9	120
4 Sa	0208	3.9	120		4 Tu	0241	3.9	120		4 W	0150	3.9	120		19 Th	0356	3.6	110
	0943	2.0	60			0940	2.3	70			0820	2.3	70			1021	2.0	60
	1247	2.3	70			1356	2.6	80			1305	3.3	100			1602	3.9	120
5 Su	0253	3.9	120		5 W	0318	3.9	120		5 Th	0228	3.6	110		20 F	0457	3.6	110
	1034	2.0	60			1022	2.0	60			0909	2.0	60			1120	2.0	60
	1346	2.3	70			1506	3.0	90			1406	3.3	100			1737	3.9	120
6 M	0336	3.9	120		6 Th	0359	3.9	120		6 F	0315	3.6	110		21 Sa	0043	2.0	60
	1119	2.0	60			1107	2.0	60			1006	2.0	60			0602	3.3	100
	1505	2.3	70			1618	3.3	100			1519	3.6	110			1219	1.6	50
7 Tu	0418	3.9	120		7 F	0446	3.9	120		7 Sa	0409	3.6	110		22 Su	0156	2.3	70
	1155	2.0	60			1154	2.0	60			1107	2.0	60			0656	3.3	100
	1622	2.6	80			1724	3.6	110			1635	3.9	120			1313	1.6	50
8 W	0457	3.9	120		8 Sa	0015	2.3	70		8 Su	0304	2.3	70		23 M	0253	2.3	70
	1225	2.0	60			0536	3.6	110			0741	3.3	100			0734	3.0	90
	1726	3.0	90			1243	1.6	50			1421	1.3	40			1401	1.6	50
9 Th	0536	3.9	120		9 Su	0132	2.3	70		9 M	0358	2.3	70		24 Tu	0330	2.3	70
	1255	1.6	50			0627	3.6	110			0811	3.3	100			0758	3.0	90
	1816	3.3	100			1334	1.3	40			1502	1.3	40			1444	1.3	40
10 F	0042	2.3	70		10 M	0245	2.3	70		10 Tu	0437	2.3	70		25 W	0354	2.3	70
	0615	3.9	120			0718	3.6	110			0836	3.0	90			0817	3.0	90
	1329	1.6	50			1427	1.3	40			1540	1.3	40			1521	1.3	40
11 Sa	0154	2.3	70		11 Tu	0353	2.0	60		11 W	0504	2.3	70		26 Th	0416	2.3	70
	0656	3.6	110			0809	3.6	110			0900	3.0	90			0838	3.0	90
	1408	1.3	40			1522	1.0	30			1612	1.3	40			1554	1.3	40
12 Su	0740	2.3	70		12 W	0454	2.0	60		12 Th	0527	2.3	70		27 F	0442	2.3	70
	1451	1.3	40			0900	3.3	100			0925	3.0	90			0903	3.3	100
	2032	4.3	130			1618	1.0	30			1639	1.3	40			1624	1.3	40
13 M	0406	2.0	60		13 Th	0552	2.0	60		13 F	0553	2.3	70		28 Sa	0509	2.3	70
	0827	3.3	100			0954	3.3	100			0953	3.0	90			0932	3.3	100
	1537	1.3	40			1714	1.0	30			1700	1.3	40			1650	1.3	40
14 Tu	0509	2.0	60		14 F	0646	2.0	60		14 Sa	0621	2.3	70		29 Su	0534	2.3	70
	0917	3.3	100			1049	3.3	100			1024	3.0	90			1003	3.3	100
	1627	1.0	30			1812	1.0	30			1722	1.3	40			1718	1.3	40
15 W	0610	2.0	60		15 Sa	0028	4.9	150		15 Su	0015	4.9	150		30 M	0557	2.3	70
	1011	3.0	90			0738	2.0	60			0658	2.3	70			1035	3.6	110
	1719	1.0	30			1146	3.3	100			1126	3.9	120			1751	1.3	40
16 Th	0710	2.0	60		16 Su	0128	3.9	120		16 M	0047	3.9	120		31 Tu	0003	3.6	110
	1107	3.0	90			0748	2.3	70			0649	2.3	70			0620	2.0	60
	1815	1.0	30			1125	2.6	80			1058	3.0	90			1107	3.6	110
17 F	0031	4.9	150		17 M	0222	4.9	150		17 Tu	0118	3.9	120		18 W	0259	3.9	120
	0808	2.0	60			0920	2.0	60			0743	2.3	70			0924	2.3	70
	1205	3.0	90			1349	3.6	110			1215	3.3	100			1439	3.9	120
18 Sa	0132	4.9	150		18 M	0205	3.9	120		18 Tu	0118	3.9	120		19 Th	0356	3.6	110
	0904	2.0	60			0902	2.3	70			0743	2.3	70			1021	2.0	60
	1305	3.0	90			1254	2.6	80			1215	3.3	100			1602	3.9	120
19 Su	0231	4.9	150		19 W	0318	3.9	120		19 Th	0511	3.9	120		20 F	0457	3.6	110
	0958	2.0	60			1022	2.0	60			1157	2.0	60			1120	2.0	60
	1409	3.0	90			1506	3.0	90			1753	3.6	110			1737	3.9	120
20 M	0329	4.9	150		20 Th	0359	3.9	120		20 F	0444	2.0	60		21 Sa	0043	2.0	60
	1051	2.0	60			1107	2.0	60			0608	3.6	110			0602	3.3	100
	1519	3.3	100			1618	3.3	100			1248	1.6	50			1219	1.6	50
21 Tu	0426	4.6	140		21 W	0446	3.9	120		21 Th	0158	2.3	70		22 F	0156	2.3	70
	1141	1.6	50			1154	2.0	60			0700	3.6	110			0656	3.3	100
	1638	3.3	100			1724	3.6	110			1336	1.6	50			1313	1.6	50
22 W	0524	4.3	130		22 Th	0446	3.9	120		22 F	0158	2.3	70		23 Sa	0156	2.3	70
	1229	1.6	50			1154	2.0	60			0700	3.6	110			0656	3.3	100
	1758	3.6	110			1724	3.6	110			1336	1.6	50			1313	1.6	50
23 Th	0048	2.0	60		23 Sa	0015	2.3	70		23 Su	0304	2.3	70		24 M	0253	2.3	70
	0618	3.9	120			0536	3.6	110			0741	3.3	100			0734	3.0	90
	1315	1.6	50			1243	1.6	50			1421	1.3	40			1401	1.6	50
24 F	0158	2.3	70		24 Su	0132	2.3	70		24 M	0358	2.3	70		25 Tu	0330	2.3	70
	0708	3.9	120			0627	3.6	110			0811	3.3	100			0758	3.0	90
	1359	1.6	50			1334	1.3	40			1502	1.3	40			1444	1.3	40
25 Sa	0305	2.3	70		25 M	0245	2.3	70		25 Tu	0437	2.3	70		26 W	0354	2.3	70
	0751	3.6	110			0718	3.6	110			0836	3.0	90			0817	3.0	90
	1440	1.3	40			1427	1.3	40			1540	1.3	40			1521	1.3	40
26 Su	0406	2.3	70		26 Th	0353	2.0	60		26 F	0504	2.3	70		27 Sa	0416	2.3	70
	0828	3.3																

Buenos Aires, Argentina, 2020

Times and Heights of High and Low Waters

April				May				June															
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height										
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm									
1 W ○	0033	3.6	110	16 Th	0236	3.6	110	1 F	0042	3.3	100	16 Sa	0254	2.6	80	1 M	0209	2.6	80	16 Tu	0327	2.3	70
	0651	2.0	60		0834	2.0	60		0706	1.6	50		0843	1.6	50		0901	1.3	40		0937	1.3	40
	1145	3.6	110		1420	3.9	120		1216	3.9	120		1510	3.6	110		1443	3.9	120		1641	3.0	90
	1915	1.6	50		2206	1.6	50		2016	1.6	50		2256	1.6	50		2234	1.6	50		2332	1.6	50
2 Th	0109	3.6	110	17 F	0332	3.3	100	2 Sa	0130	3.0	90	17 Su	0350	2.6	80	2 Tu	0306	3.0	90	17 W	0417	2.3	70
	0732	2.0	60		0931	2.0	60		0802	1.6	50		0940	1.6	50		1009	1.0	30		1034	1.3	40
	1232	3.6	110		1538	3.9	120		1320	3.9	120		1628	3.6	110		1558	3.9	120		1735	3.0	90
	2011	1.6	50		2319	2.0	60		2125	1.6	50						2336	1.6	50				
3 F	0152	3.6	110	18 Sa	0436	3.0	90	3 Su	0225	3.0	90	18 M	0001	1.6	50	3 W	0406	3.0	90	18 Th	0017	1.6	50
	0825	2.0	60		1035	2.0	60		0906	1.6	50		0452	2.3	70		1119	1.0	30		0505	2.3	70
	1332	3.9	120		1709	3.6	110		1435	3.9	120		1042	1.6	50		1709	4.3	130		1135	1.3	40
	2119	1.6	50						2239	1.6	50		1741	3.3	100						1820	3.0	90
4 Sa	0244	3.3	100	19 Su	0034	2.0	60	4 M	0325	3.0	90	19 Tu	0050	2.0	60	4 Th	0033	1.6	50	19 F	0056	1.6	50
	0927	2.0	60		0545	3.0	90		1015	1.3	40		0548	2.3	70		0505	3.3	100		0547	2.6	80
	1445	3.9	120		1140	1.6	50		1556	4.3	130		1147	1.6	50		1229	1.0	30		1235	1.3	40
	2236	2.0	60		1826	3.6	110		2350	1.6	50		1835	3.3	100		1815	4.3	130		1856	3.0	90
5 Su	0344	3.3	100	20 M	0138	2.0	60	5 Tu	0428	3.0	90	20 W	0123	2.0	60	5 F	0126	1.6	50	20 Sa	0131	1.6	50
	1034	1.6	50		0640	2.6	80		1126	1.3	40		0626	2.6	80		0602	3.6	110		0624	3.0	90
	1605	4.3	130		1241	1.6	50		1714	4.3	130		1244	1.3	40		1337	1.0	30		1329	1.3	40
	2355	2.0	60		1922	3.6	110						1915	3.3	100		1917	3.9	120		1927	3.0	90
6 M	0448	3.3	100	21 Tu	0219	2.0	60	6 W	0055	1.6	50	21 Th	0152	1.6	50	6 Sa	0215	1.6	50	21 Su	0201	1.6	50
	1142	1.6	50		0715	2.6	80		0529	3.3	100		0652	2.6	80		0656	3.9	120		0700	3.3	100
	1725	4.3	130		1332	1.6	50		1237	1.3	40		1334	1.3	40		1442	1.0	30		1420	1.3	40
					2002	3.6	110		1824	4.6	140		1946	3.3	100		2016	3.9	120		1957	3.0	90
7 Tu	0109	2.0	60	22 W	0244	2.0	60	7 Th	0152	1.6	50	22 F	0222	1.6	50	7 Su	0301	1.6	50	22 M	0231	1.6	50
	0549	3.3	100		0736	3.0	90		0624	3.6	110		0716	3.0	90		0748	3.9	120		0735	3.3	100
	1249	1.3	40		1416	1.6	50		1346	1.0	30		1418	1.3	40		1545	1.0	30		1508	1.3	40
	1837	4.6	140		2030	3.6	110		1929	4.6	140		2013	3.3	100		2114	3.6	110		2028	3.0	90
8 W	0214	2.0	60	23 Th	0307	2.0	60	8 F	0243	1.6	50	23 Sa	0252	1.6	50	8 M	0345	1.6	50	23 Tu	0303	1.6	50
	0645	3.6	110		0754	3.0	90		0716	3.6	110		0742	3.3	100		0842	4.3	130		0810	3.6	110
	1356	1.3	40		1455	1.3	40		1452	1.0	30		1458	1.3	40		1645	1.0	30		1556	1.3	40
	1943	4.6	140		2055	3.6	110		2030	4.3	130		2040	3.3	100		2210	3.6	110		2105	3.0	90
9 Th	0311	2.0	60	24 F	0333	2.0	60	9 Sa	0330	2.0	60	24 Su	0319	1.6	50	9 Tu	0429	1.6	50	24 W	0341	1.3	40
	0736	3.6	110		0815	3.3	100		0807	3.9	120		0812	3.3	100		0938	4.3	130		0847	3.6	110
	1501	1.0	30		1531	1.3	40		1554	1.0	30		1538	1.3	40		1743	1.0	30		1646	1.3	40
	2047	4.9	150		2121	3.6	110		2131	4.3	130		2107	3.3	100		2304	3.3	100		2148	3.0	90
10 F	0402	2.0	60	25 Sa	0401	2.0	60	10 Su	0415	2.0	60	25 M	0345	1.6	50	10 W	0512	1.6	50	25 Th	0424	1.3	40
	0826	3.9	120		0841	3.3	100		0858	4.3	130		0843	3.6	110		1037	3.9	120		0930	3.9	120
	1603	1.0	30		1604	1.3	40		1654	1.0	30		1618	1.3	40		1839	1.3	40		1736	1.3	40
	2151	4.6	140		2149	3.6	110		2232	3.9	120		2138	3.3	100		2354	3.0	90		2234	2.6	80
11 Sa	0448	2.0	60	26 Su	0427	2.0	60	11 M	0457	2.0	60	26 Tu	0413	1.6	50	11 Th	0556	1.3	40	26 F	0512	1.3	40
	0917	3.9	120		0910	3.6	110		0953	4.3	130		0914	3.6	110		1138	3.9	120		1021	3.9	120
	1703	1.0	30		1637	1.3	40		1753	1.0	30		1700	1.3	40		1931	1.3	40		1828	1.3	40
	2254	4.6	140		2219	3.6	110		2330	3.6	110		2213	3.0	90						2323	2.6	80
12 Su	0533	2.0	60	27 M	0451	2.0	60	12 Tu	0539	2.0	60	27 W	0445	1.6	50	12 F	0039	2.6	80	27 Sa	0603	1.0	30
	1011	4.3	130		0941	3.6	110		1052	4.3	130		0947	3.6	110		0638	1.3	40		1124	3.9	120
	1801	1.0	30		1712	1.3	40		1850	1.0	30		1744	1.3	40		1238	3.6	110		1923	1.3	40
	2354	4.3	130		2249	3.3	100						2254	3.0	90		2021	1.3	40				
13 M	0615	2.0	60	28 Tu	0515	2.0	60	13 W	0024	3.6	110	28 Th	0523	1.6	50	13 Sa	0121	2.6	80	28 Su	0012	2.6	80
	1108	4.3	130		1010	3.6	110		0622	1.6	50		1026	3.9	120		0720	1.3	40		0659	1.0	30
	1900	1.0	30		1749	1.3	40		1153	4.3	130		1831	1.3	40		1338	3.6	110		1235	3.9	120
					2322	3.3	100		1949	1.3	40		2338	3.0	90		2107	1.6	50		2019	1.3	40
14 Tu	0051	4.3	130	29 W	0544	2.0	60	14 Th	0115	3.3	100	29 F	0607	1.3	40	14 Su	0201	2.3	70	29 M	0102	2.6	80
	0659	2.0	60		1043	3.9	120		0706	1.6	50		1116	3.9	120		0803	1.3	40		0759	1.0	30
	1209	4.3	130		1830	1.6	50		1256	3.9	120		1924	1.3	40		1438	3.3	100		1345	3.9	120
	1959	1.3	40						2048	1.3	40						2153	1.6	50		2116	1.3	40
15 W	0143	3.9	120	30 Th	0000	3.3	100	15 F	0203	3.0	90	30 Sa	0026	3.0	90	15 M	0242	2.3	70	30 Tu	0153	3.0	90
	0744	2.0	60		0620	1.6	50		0752	1.6	50		0658	1.3	40		0848	1.3	40		0902	1.0	30
	1312	4.3	130		1124	3.9	120		1400	3.9	120		1217	3.9	120		1540	3.3	100		1453	3.9	120
	2100	1.3	40		1919	1.6	50		2150	1.6	50		2023	1.3	40		2242	1.6	50		2214	1.6	50

Time meridian 45° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to the chart datum of soundings.

Buenos Aires, Argentina, 2020

Times and Heights of High and Low Waters

July				August				September																							
Time		Height		Time		Height		Time		Height		Time		Height																	
h	m	ft	cm	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm																
1	W	0246	3.0	90	16	Th	0255	2.6	80	1	Sa	0429	3.6	110	16	Su	0342	3.3	100	1	Tu	0058	1.6	50	16	W	0505	3.9	120		
		1008	1.0	30			0943	1.3	40			1220	1.0	30			1108	1.3	40			0651	3.9	120			1259	1.6	50		
		1559	3.9	120			1631	3.0	90			1802	3.3	100			1652	2.6	80			1438	1.3	40			1755	2.6	80		
		2311	1.6	50			2247	2.0	60								2247	2.0	60			2002	3.0	90							
2	Th	0344	3.3	100	17	F	0346	2.6	80	2	Su	0026	1.6	50	17	M	0438	3.3	100	2	W	0154	1.6	50	17	Th	0016	1.6	50		
		1115	1.0	30			1042	1.3	40			0534	3.9	120			1212	1.3	40			0749	3.9	120			0608	4.3	130		
		1705	3.9	120			1717	3.0	90			1328	1.0	30			1742	2.6	80			1534	1.3	40			1404	1.3	40		
							2331	2.0	60			1906	3.3	100			2347	1.6	50			2044	2.6	80			●	1851	3.0	90	
3	F	0005	1.6	50	18	Sa	0439	3.0	90	3	M	0120	1.6	50	18	Tu	0533	3.6	110	3	Th	0247	1.6	50	18	F	0126	1.3	40		
		0443	3.3	100			1144	1.3	40			0638	3.9	120			1316	1.3	40			0836	3.9	120			0708	4.6	140		
		1223	1.0	30			1758	2.6	80			1434	1.3	40			1833	2.6	80			1617	1.6	50			1503	1.3	40		
		1809	3.6	110								●	2004	3.0	90			●					2114	2.6	80			1943	3.0	90	
4	Sa	0057	1.6	50	19	Su	0011	2.0	60	4	Tu	0213	1.6	50	19	W	0049	1.6	50	4	F	0334	1.6	50	19	Sa	0235	1.3	40		
		0543	3.6	110			0528	3.0	90			0737	3.9	120			0627	3.9	120			0916	3.6	110			0808	4.6	140		
		1330	1.0	30			1245	1.3	40			1537	1.3	40			1420	1.3	40			1646	1.6	50			1555	1.3	40		
		1910	3.6	110			1836	3.0	90			2053	3.0	90			1922	2.6	80			2138	2.6	80			2032	3.3	100		
5	Su	0146	1.6	50	20	M	0052	1.6	50	5	W	0304	1.6	50	20	Th	0151	1.3	40	5	Sa	0416	1.3	40	20	Su	0341	1.0	30		
		0641	3.9	120			0613	3.3	100			0831	3.9	120			0721	3.9	120			0954	3.6	110			0911	4.6	140		
		1436	1.0	30			1343	1.3	40			1631	1.3	40			1520	1.3	40			1706	1.6	50			1644	1.6	50		
		●	2007	3.3	100			●	1914	3.0	90			2135	2.6	80			2011	3.0	90			2202	2.6	80			2122	3.3	100
6	M	0235	1.6	50	21	Tu	0136	1.6	50	6	Th	0351	1.3	40	21	F	0253	1.3	40	6	Su	0454	1.3	40	21	M	0444	1.0	30		
		0736	3.9	120			0657	3.6	110			0922	3.6	110			0817	4.3	130			1032	3.6	110			1017	4.6	140		
		1538	1.0	30			1440	1.3	40			1715	1.3	40			1616	1.3	40			1727	1.6	50			1729	1.6	50		
		2101	3.3	100			1954	3.0	90			2210	2.6	80			2101	3.0	90			2229	3.0	90			2214	3.6	110		
7	Tu	0322	1.6	50	22	W	0224	1.6	50	7	F	0436	1.3	40	22	Sa	0354	1.0	30	7	M	0528	1.3	40	22	Tu	0545	1.0	30		
		0831	3.9	120			0741	3.6	110			1011	3.6	110			0918	4.3	130			1111	3.3	100			1125	4.3	130		
		1638	1.3	40			1536	1.3	40			1748	1.6	50			1708	1.3	40			1752	1.6	50			1813	1.6	50		
		2152	3.0	90			2038	3.0	90			2241	2.6	80			2150	3.0	90			2258	3.0	90			2309	3.9	120		
8	W	0408	1.3	40	23	Th	0315	1.3	40	8	Sa	0517	1.3	40	23	Su	0455	1.0	30	8	Tu	0558	1.3	40	23	W	0647	1.0	30		
		0927	3.9	120			0828	3.9	120			1059	3.6	110			1027	4.3	130			1150	3.3	100			1229	3.9	120		
		1732	1.3	40			1631	1.3	40			1810	1.6	50			1757	1.3	40			1818	1.6	50			1857	1.6	50		
		2238	3.0	90			2126	2.6	80			2311	2.6	80			2241	3.3	100			2329	3.0	90			●				
9	Th	0453	1.3	40	24	F	0408	1.3	40	9	Su	0553	1.3	40	24	M	0555	1.0	30	9	W	0629	1.3	40	24	Th	0007	3.9	120		
		1024	3.9	120			0922	3.9	120			1146	3.3	100			1138	4.3	130			1227	3.3	100			0749	1.0	30		
		1820	1.3	40			1725	1.3	40			1832	1.6	50			1844	1.3	40			1841	1.6	50			1327	3.9	120		
		2319	2.6	80			2215	2.6	80			2342	2.6	80			2333	3.3	100			1903	1.6	50			1941	1.6	50		
10	F	0536	1.3	40	25	Sa	0504	1.0	30	10	M	0626	1.3	40	25	Tu	0655	0.7	20	10	Th	0002	3.3	100	25	F	0107	4.3	130		
		1120	3.6	110			1026	3.9	120			1233	3.3	100			1244	3.9	120			0704	1.3	40			0853	1.0	30		
		1859	1.3	40			1818	1.3	40			1900	1.6	50			1930	1.6	50			1301	3.0	90			1423	3.6	110		
		2357	2.6	80			2305	3.0	90								●					1903	1.6	50			2029	2.0	60		
11	Sa	0616	1.3	40	26	Su	0601	1.0	30	11	Tu	0012	2.6	80	26	W	0026	3.6	110	11	F	0037	3.3	100	26	Sa	0209	4.3	130		
		1216	3.6	110			1137	3.9	120			0658	1.0	30			0756	0.7	20			0747	1.3	40			1000	1.3	40		
		1928	1.6	50			1909	1.3	40			1317	3.3	100			1344	3.9	120			1332	3.0	90			1521	3.3	100		
							2355	3.0	90			●	1929	1.6	50			2017	1.6	50			1930	1.6	50			2124	2.0	60	
12	Su	0031	2.3	70	27	M	0659	0.7	20	12	W	0043	2.6	80	27	Th	0120	3.6	110	12	Sa	0116	3.3	100	27	Su	0316	4.3	130		
		0653	1.0	30			1247	3.9	120			0733	1.0	30			0858	0.7	20			0838	1.3	40			1111	1.3	40		
		1309	3.3	100			2000	1.3	40			1359	3.0	90			1442	3.6	110			1408	3.0	90			1628	3.0	90		
		●	1954	1.6	50			●					1959	1.6	50			2106	1.6	50			2008	1.6	50			2225	2.0	60	
13	M	0104	2.3	70	28	Tu	0045	3.0	90	13	Th	0119	3.0	90	28	F	0217	3.9	120	13	Su	0202	3.6	110	28	M	0434	3.9	120		
		0729	1.0	30			0800	0.7	20			0816	1.3	40			1003	1.0	30			0937	1.6	50			1225	1.6	50		
		1400	3.3	100			1352	3.9	120			1440	3.0	90			1541	3.3	100			1454	2.6	80			1746	2.6	80		
		2028	1.6	50			2051	1.6	50			2028	1.6	50			2200	2.0	60			2059	1.6	50			2330	1.6	50		
14	Tu	0136	2.3	70	29	W	0136	3.3	100	14	F	0200	3.0	90	29	Sa	0318	3.9	120	14	M	0258	3.6	110	29	Tu	0554	3.9	120		
		0806	1.0	30			0902	0.7	20			0908	1.3	40			1110	1.0	30			1042	1.6	50			1337	1.6	50		
		1451	3.0	90			1453	3.9	120			1521	2.6	80			1645	3.3	100			1551	2.6	80			1				

Puerto Ingeniero White, Argentina, 2020

Times and Heights of High and Low Waters

January				February				March																		
Time		Height		Time		Height		Time		Height		Time		Height												
h	m	ft	cm	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm							
1 W	0452	3.0	90	16 Th	0417	3.3	100	1 Sa	0601	2.6	80	16 Su	0551	1.6	50	1 Su	0531	2.3	70	16 M	0533	1.0	30			
	1129	14.4	440		1002	13.5	410		1225	14.1	430		1238	13.8	420		1147	14.1	430		1730	2.3	70	1747	2.3	70
	1719	1.0	30		1654	2.0	60		1807	2.0	60		1810	2.3	70		2318	14.8	450							
	2345	14.4	440		2255	14.1	430		○																	
2 Th	0540	3.0	90	17 F	0509	2.6	80	2 Su	0010	14.4	440	17 M	0039	14.8	450	2 M	0609	2.0	60	17 Tu	0015	14.8	450			
	1219	14.4	440		1129	13.5	410		0644	2.6	80		0650	1.3	40		1218	14.4	440		0630	0.7	20			
	1802	1.3	40		1742	1.6	50		1301	14.4	440		1337	14.1	430		1803	2.6	80		1315	14.1	430			
					2348	14.4	440		1842	2.6	80		1903	2.6	80		2351	14.8	450		1840	3.0	90			
3 F	0024	14.4	440	18 Sa	0606	2.3	70	3 M	0045	14.4	440	18 Tu	0153	14.8	450	3 Tu	0648	2.0	60	18 W	0132	14.8	450			
	0629	3.0	90		1246	13.8	420		0727	2.3	70		0749	1.0	30		1255	14.4	440		0727	0.7	20			
	1304	14.4	440		1832	2.0	60		1339	14.4	440		1436	14.1	430		1839	3.0	90		1414	14.1	430			
	1844	2.0	60						1920	3.0	90		2001	3.3	100						1939	3.6	110			
4 Sa	0105	14.4	440	19 Su	0054	14.4	440	4 Tu	0128	14.4	440	19 W	0302	14.8	450	4 W	0033	14.8	450	19 Th	0241	14.8	450			
	0719	3.0	90		0705	2.0	60		0812	2.3	70		0849	1.0	30		0730	1.6	50		0825	1.0	30			
	1347	14.4	440		1421	14.1	430		1421	14.1	430		1538	13.8	420		1337	14.4	440		1517	13.8	420			
	1925	2.3	70		2002	3.6	110		2002	3.6	110		2105	3.9	120		1921	3.6	110		2044	3.9	120			
5 Su	0147	14.1	430	20 M	0207	14.4	440	5 W	0217	14.4	440	20 Th	0405	14.8	450	5 Th	0123	14.8	450	20 F	0344	14.8	450			
	0809	3.0	90		0807	1.6	50		0859	2.0	60		0949	1.3	40		0816	1.6	50		0925	1.3	40			
	1428	14.1	430		1453	13.8	420		1507	14.1	430		1643	13.8	420		1424	14.1	430		1623	13.8	420			
	2007	3.0	90		2023	3.3	100		2050	4.3	130		2213	4.3	130		2010	3.9	120		2154	4.3	130			
6 M	0234	14.1	430	21 Tu	0319	14.4	440	6 Th	0309	14.4	440	21 F	0503	14.8	450	6 F	0219	14.4	440	21 Sa	0442	14.8	450			
	0859	2.6	80		0909	1.6	50		0948	2.0	60		1048	1.6	50		0905	1.6	50		1024	1.6	50			
	1511	14.1	430		1554	13.8	420		1558	13.8	420		1750	13.5	410		1516	13.8	420		1729	13.8	420			
	2053	3.6	110		2125	3.9	120		2145	4.6	140		2320	4.3	130		2105	4.6	140		2303	4.3	130			
7 Tu	0322	14.1	430	22 W	0423	14.4	440	7 F	0401	14.1	430	22 Sa	0558	14.4	440	7 Sa	0317	14.4	440	22 Su	0538	14.4	440			
	0949	2.6	80		1010	1.6	50		1040	2.3	70		1146	1.6	50		0959	2.0	60		1124	2.0	60			
	1557	14.1	430		1659	13.5	410		1654	13.5	410		1853	13.8	420		1615	13.5	410		1830	14.1	430			
	2143	4.3	130		2231	4.3	130		2245	4.9	150						2208	4.9	150							
8 W	0410	14.1	430	23 Th	0521	14.4	440	8 Sa	0451	14.1	430	23 Su	0020	4.3	130	8 Su	0413	14.1	430	23 M	0004	3.9	120			
	1039	2.6	80		1109	1.6	50		1135	2.3	70		0651	14.4	440		1056	2.3	70		0632	14.4	440			
	1647	13.8	420		1806	13.5	410		1754	13.1	400		1242	1.6	50		1717	13.1	400		1221	2.0	60			
	2238	4.6	140		2336	4.6	140		2344	5.2	160		1948	14.1	430		2312	4.9	150		1923	14.4	440			
9 Th	0457	14.1	430	24 F	0615	14.4	440	9 Su	0537	13.8	420	24 M	0113	3.6	110	9 M	0507	13.8	420	24 Tu	0057	3.3	100			
	1129	2.3	70		1206	1.6	50		1230	2.6	80		0743	14.1	430		1155	3.0	90		0724	14.1	430			
	1741	13.5	410		1910	13.5	410		1854	12.8	390		1334	1.6	50		1820	12.8	390		1313	2.3	70			
	2334	4.9	150		●				○				2034	14.4	440						2008	14.8	450			
10 F	0540	14.1	430	25 Sa	0035	4.3	130	10 M	0040	4.9	150	25 Tu	0202	3.3	100	10 Tu	0013	4.6	140	25 W	0145	3.0	90			
	1219	2.3	70		0705	14.1	430		0622	13.5	410		0833	14.1	430		0559	13.5	410		0814	14.1	430			
	1837	13.5	410		1300	1.6	50		1323	2.6	80		1422	1.6	50		1253	3.0	90		1401	2.0	60			
					2006	13.8	420		1948	12.8	390		2114	14.4	440		1917	13.1	400		2047	14.8	450			
11 Sa	0026	4.9	150	26 Su	0128	3.9	120	11 Tu	0132	4.6	140	26 W	0247	3.0	90	11 W	0109	4.3	130	26 Th	0229	2.6	80			
	0619	13.8	420		0754	14.1	430		0706	13.1	400		0920	14.1	430		0653	13.1	400		0900	14.1	430			
	1308	2.6	80		1352	1.6	50		1413	2.6	80		1506	1.6	50		1346	3.0	90		1443	2.0	60			
	1932	13.1	400		2053	13.8	420		2032	13.1	400		2148	14.8	450		2003	13.1	400		2121	14.8	450			
12 Su	0114	4.9	150	27 M	0216	3.6	110	12 W	0221	3.9	120	27 Th	0331	2.6	80	12 Th	0201	3.6	110	27 F	0311	2.3	70			
	0655	13.5	410		0843	14.1	430		0755	13.1	400		1004	14.1	430		0752	12.8	390		0942	14.1	430			
	1355	2.6	80		1441	1.3	40		1500	2.6	80		1547	1.6	50		1436	3.0	90		1521	2.3	70			
	2020	13.1	400		2134	14.1	430		2111	13.5	410		2218	14.8	450		2043	13.8	420		2146	14.8	450			
13 M	0158	4.6	140	28 Tu	0302	3.3	100	13 Th	0310	3.3	100	28 F	0412	2.6	80	13 F	0253	2.6	80	28 Sa	0350	2.3	70			
	0730	13.5	410		0933	14.1	430		0856	13.1	400		1043	14.1	430		0905	13.1	400		1017	14.1	430			
	1440	2.6	80		1527	1.3	40		1547	2.3	70		1624	2.0	60		1523	2.6	80		1554	2.6	80			
	2100	13.1	400		2210	14.4	440		2149	13.8	420		2239	14.8	450		2121	14.1	430		2200	14.4	440			
14 Tu	0242	4.3	130	29 W	0348	3.0	90	14 F	0401	2.6	80	29 Sa	0452	2.3	70	14 Sa	0345	2.0	60	29 Su	0426	2.0	60			
	0809	13.5	410		1021	14.1	430		1018	13.1	400		1116	14.1	430		1019	13.5	410		1046	14.1	430			
	1524	2.3	70		1611	1.3	40		1633	2.0	60		1657	2.0	60		1610	2.3	70		1624	2.6	80			
	2135	13.5	410		2244	14.4	440		2234	14.1	430		2255	14.4	440		2206	14.4	440		2210	14.4	440			
15 W	0328	3.6	110	30 Th	0433	2.6	80	15 Sa	0455	2.0	60	30 Su	0438	1.3	40	15 Su	0438	1.3	40	30 M	0501	2.0	60			
	0857	13.5	410		1106	14.1	430		1135	13.5	410		1121	13.8	420		1121	13.8	420		1112	14.1	430			
	1609	2.0	60		1652	1.3	40		1721	2.0	60		1657	2.3	70		1657	2.3	70		1654	3.0	90			
	2212	13.8	420		2314	14.4	440		2330	14.4	440		2303	14.8	450		2303	14.8	450		2233	14.8	450			
			31 F	0517	2.6	80																				
				1147	14.1	430																				
				1730	1.6	50																				
				2341	14.4	440																				

Time meridian 45° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Puerto Ingeniero White, Argentina, 2020

Times and Heights of High and Low Waters

April				May				June							
Time		Height		Time		Height		Time		Height		Time		Height	
h	m	ft	cm	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm
1	0613	1.3	40	16	0107	14.8	450	1	0625	1.0	30	16	0150	14.4	440
W	1217	14.4	440	Th	0703	0.3	10	F	1226	14.1	430	Sa	0731	1.0	30
○	1805	3.3	100		1349	14.1	430		1822	3.6	110		1424	14.1	430
	2348	14.8	450		1917	3.6	110		2000	3.9	120		2000	3.6	110
2	0654	1.3	40	17	0217	14.8	450	2	0007	14.8	450	17	0249	14.4	440
Th	1258	14.4	440	F	0759	1.0	30	Sa	0711	1.0	30	Su	0825	1.6	50
○	1848	3.3	100		1453	13.8	420		1316	14.1	430		1528	14.1	430
					2023	4.3	130		1916	3.6	110		2108	3.9	120
3	0040	14.8	450	18	0319	14.8	450	3	0112	14.4	440	18	0345	14.1	430
F	0740	1.3	40	Sa	0857	1.3	40	Su	0801	1.3	40	M	0922	2.3	70
○	1347	14.1	430		1559	13.8	420		1413	13.8	420		1628	14.1	430
	1939	3.9	120		2134	4.3	130		2016	3.9	120		2214	3.6	110
4	0140	14.4	440	19	0417	14.4	440	4	0223	14.1	430	19	0438	14.1	430
Sa	0830	1.6	50	Su	0956	2.0	60	M	0855	2.0	60	Tu	1020	3.0	90
○	1441	13.8	420		1703	14.1	430		1518	13.5	410		1723	14.4	440
	2037	4.3	130		2242	3.9	120		2122	3.9	120		2313	3.3	100
5	0244	14.4	440	20	0512	14.4	440	5	0330	13.8	420	20	0529	13.8	420
Su	0924	2.0	60	M	1056	2.3	70	Tu	0954	2.6	80	W	1118	3.3	100
○	1542	13.5	410		1801	14.4	440		1627	13.5	410		1812	14.8	450
	2141	4.6	140		2342	3.6	110		2229	3.9	120				
6	0347	13.8	420	21	0605	14.1	430	6	0435	13.5	410	21	0005	2.6	80
M	1023	2.6	80	Tu	1154	2.6	80	W	1056	3.3	100	Th	0621	13.8	420
○	1649	13.1	400		1851	14.8	450		1731	13.5	410		1213	3.3	100
	2248	4.6	140						2332	3.3	100		1855	15.1	460
7	0447	13.5	410	22	0035	3.0	90	7	0539	13.1	400	22	0053	2.3	70
Tu	1124	3.0	90	W	0657	14.1	430	Th	1158	3.6	110	F	0711	13.8	420
○	1753	13.1	400	●	1247	2.6	80	○	1826	13.8	420	●	1301	3.3	100
	2351	3.9	120		1935	15.1	460					●	1933	15.1	460
8	0546	13.1	400	23	0122	2.3	70	8	0030	3.0	90	23	0137	2.0	60
W	1224	3.3	100	Th	0747	14.1	430	F	0644	12.8	390	Sa	0800	13.8	420
○	1849	13.5	410		1334	2.6	80		1255	3.9	120		1342	3.6	110
					2014	15.1	460		1909	14.1	430		2005	14.8	450
9	0049	3.6	110	24	0206	2.3	70	9	0124	2.3	70	24	0218	2.0	60
Th	0647	12.8	390	F	0834	14.1	430	Sa	0751	12.8	390	Su	0844	13.8	420
○	1320	3.3	100		1416	2.6	80		1347	3.6	110		1418	3.6	110
	1935	13.8	420		2046	15.1	460		1946	14.4	440		2027	14.8	450
10	0142	3.0	90	25	0247	2.0	60	10	0216	1.6	50	25	0255	1.6	50
F	0754	12.8	390	Sa	0915	14.1	430	Su	0853	12.8	390	M	0921	13.8	420
○	1411	3.3	100		1451	3.0	90		1435	3.3	100		1450	3.9	120
	2013	14.1	430		2109	14.8	450		2023	14.8	450		2040	14.4	440
11	0235	2.0	60	26	0324	2.0	60	11	0308	1.0	30	26	0330	1.6	50
Sa	0903	13.1	400	Su	0950	14.1	430	M	0947	13.1	400	Tu	0951	13.8	420
○	1459	3.0	90		1523	3.3	100		1523	3.3	100		1520	3.9	120
	2050	14.4	440		2119	14.4	440		2105	14.8	450		2057	14.4	440
12	0327	1.3	40	27	0358	2.0	60	12	0400	0.7	20	27	0404	1.6	50
Su	1100	13.5	410	M	1017	13.8	420	Tu	1130	13.5	410	W	1016	13.8	420
○	1546	2.6	80		1552	3.3	100		1611	3.0	90		1553	3.9	120
	2133	14.8	450		2131	14.4	440		2200	14.8	450		2123	14.4	440
13	0419	0.7	20	28	0431	1.6	50	13	0452	0.3	10	28	0439	1.3	40
M	1100	13.8	420	Tu	1041	14.1	430	W	1130	13.8	420	Th	1044	13.8	420
○	1633	2.6	80		1622	3.3	100		1701	3.0	90		1631	3.6	110
	2230	14.8	450		2155	14.8	450		2320	14.8	450		2200	14.8	450
14	0513	0.3	10	29	0505	1.3	40	14	0544	0.3	10	29	0517	1.0	30
Tu	1154	13.8	420	W	1110	14.1	430	Th	1224	14.1	430	F	1118	14.1	430
○	1723	2.6	80		1656	3.3	100	○	1755	3.3	100	○	1714	3.6	110
	2346	14.8	450		2229	14.8	450					○	2247	14.8	450
15	0607	0.3	10	30	0543	1.3	40	15	0042	14.4	440	30	0600	1.0	30
W	1250	14.1	430	Th	1145	14.1	430	F	0637	0.3	10	Sa	1200	14.1	430
○	1817	3.3	100	○	1736	3.3	100		1322	14.1	430	○	1803	3.3	100
					2312	14.8	450		1855	3.6	110		2347	14.4	440
												31	0646	1.0	30
												Su	1250	14.1	430
													1859	3.3	100

Time meridian 45° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Puerto Ingeniero White, Argentina, 2020

Times and Heights of High and Low Waters

July				August				September																					
Time	Height			Time	Height			Time	Height			Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm										
1 W	0203	13.8	420		16 Th	0301	13.8	420		1 Sa	0403	12.8	390		16 Su	0342	13.5	410		1 Tu	0626	12.8	390		16 W	0454	12.8	390	
	0806	2.3	70			0841	3.6	110			0945	3.9	120			0928	4.6	140			1145	4.6	140			1047	4.6	140	
	1444	14.1	430			1536	14.1	430			1644	14.4	440			1602	14.4	440			1829	14.4	440			1700	14.1	430	
	2050	2.6	80			2145	3.0	90			2235	2.3	70			2233	2.6	80								2338	3.0	90	
2 Th	0310	13.5	410		17 F	0348	13.5	410		2 Su	0517	12.5	380		17 M	0439	13.1	400		2 W	0018	2.6	80		17 Th	0559	12.8	390	
	0904	3.0	90			0932	3.9	120			1053	4.6	140			1027	4.9	150			0730	13.1	400			1148	4.6	140	
	1555	14.4	440			1622	14.4	440			1742	14.4	440			1651	14.4	440			1245	4.3	130			1245	4.3	130	
	2153	2.6	80			2236	2.6	80			2336	2.3	70			2327	2.6	80			1924	14.4	440			1753	14.1	430	
3 F	0415	13.1	400		18 Sa	0439	13.5	410		3 M	0635	12.5	380		18 Tu	0541	12.8	390		3 Th	0114	2.3	70		18 F	0036	3.3	100	
	1007	3.9	120			1026	4.6	140			1157	4.6	140			1127	4.9	150			0822	13.5	410			0659	12.8	390	
	1657	14.4	440			1706	14.4	440			1836	14.4	440			1739	14.1	430			1337	3.6	110			1245	3.9	120	
	2255	2.3	70			2327	2.6	80			1927	14.1	430			1825	14.1	430			2017	14.4	440			1846	13.8	420	
4 Sa	0524	12.5	380		19 Su	0534	13.1	400		4 Tu	0034	2.0	60		19 W	0022	2.6	80		4 F	0205	2.0	60		19 Sa	0129	3.3	100	
	1111	4.3	130			1122	4.9	150			0743	12.5	380			0645	12.8	390			0905	13.8	420			0747	12.8	390	
	1752	14.4	440			1747	14.4	440			1255	4.6	140			1223	4.9	150			1425	3.3	100			1337	3.6	110	
	2354	2.0	60								1927	14.1	430			1825	14.1	430			2106	14.4	440			1939	13.8	420	
5 Su	0638	12.5	380		20 M	0017	2.3	70		5 W	0129	2.0	60		20 Th	0114	2.6	80		5 Sa	0251	1.6	50		20 Su	0217	3.0	90	
	1213	4.6	140			0632	13.1	400			0837	13.1	400			0741	12.8	390			0942	14.1	430			0825	13.5	410	
	1840	14.4	440			1214	4.9	150			1347	3.9	120			1313	4.6	140			1511	3.0	90			1427	3.0	90	
						1826	14.4	440			2018	14.1	430			1909	13.8	420			2150	14.4	440			2035	13.8	420	
6 M	0050	2.0	60		21 Tu	0105	2.3	70		6 Th	0220	1.6	50		21 F	0201	2.6	80		6 Su	0334	1.3	40		21 M	0302	2.6	80	
	0746	12.5	380			0729	13.1	400			0921	13.5	410			0826	12.8	390			1016	14.4	440			0900	13.8	420	
	1308	4.3	130			1301	4.9	150			1436	3.6	110			1401	3.9	120			1555	2.6	80			1517	2.3	70	
	1924	14.4	440			1902	14.1	430			2108	14.1	430			1953	13.8	420			2230	14.4	440			2131	13.8	420	
7 Tu	0143	1.6	50		22 W	0150	2.3	70		7 F	0308	1.3	40		22 Sa	0245	2.3	70		7 M	0412	1.3	40		22 Tu	0346	2.3	70	
	0843	12.8	390			0818	13.1	400			1000	13.8	420			0901	13.1	400			1046	14.4	440			0937	14.1	430	
	1359	3.9	120			1344	4.6	140			1524	3.3	100			1447	3.6	110			1638	2.3	70			1608	1.6	50	
	2007	14.4	440			1935	14.1	430			2158	14.4	440			2041	13.8	420			2305	14.8	450			2227	14.1	430	
8 W	0235	1.3	40		23 Th	0232	2.3	70		8 Sa	0353	1.0	30		23 Su	0328	2.0	60		8 Tu	0448	1.6	50		23 W	0430	2.0	60	
	0929	13.1	400			0858	13.1	400			1037	14.1	430			0933	13.5	410			1109	14.4	440			1022	14.8	450	
	1448	3.6	110			1425	4.3	130			1611	3.0	90			1535	3.0	90			1719	2.3	70			1701	1.3	40	
	2056	14.4	440			2008	14.1	430			2246	14.4	440			2135	13.8	420			2337	14.8	450			2322	14.1	430	
9 Th	0324	1.0	30		24 F	0312	2.0	60		9 Su	0436	1.0	30		24 M	0410	1.6	50		9 W	0522	2.0	60		24 Th	0517	2.0	60	
	1011	13.5	410			0929	13.1	400			1112	14.4	440			1009	14.1	430			1128	14.4	440			1122	14.8	450	
	1536	3.6	110			1507	3.9	120			1658	3.0	90			1625	2.3	70			1759	2.3	70			1756	1.0	30	
	2154	14.4	440			2047	14.1	430			2329	14.4	440			2235	14.1	430											
10 F	0412	0.7	20		25 Sa	0352	1.6	50		10 M	0516	1.3	40		25 Tu	0453	1.6	50		10 Th	0007	14.4	440		25 F	0019	14.1	430	
	1053	13.8	420			1000	13.5	410			1147	14.4	440			1052	14.4	440			0554	2.3	70			0607	2.3	70	
	1626	3.3	100			1552	3.3	100			1745	3.0	90			1719	1.6	50			1154	14.4	440			1240	14.8	450	
	2256	14.4	440			2135	14.1	430							2336	14.1	430			1838	2.3	70			1852	1.0	30		
11 Sa	0458	0.7	20		26 Su	0433	1.3	40		11 Tu	0010	14.4	440		26 W	0539	1.6	50		11 F	0040	14.4	440		26 Sa	0118	13.8	420	
	1136	14.1	430			1034	13.8	420			0555	1.6	50			1147	14.8	450			0628	2.6	80			0701	3.0	90	
	1717	3.3	100			1641	3.0	90			1220	14.4	440			1814	1.6	50			1232	14.4	440			1401	14.8	450	
	2353	14.4	440			2234	14.1	430			1832	3.0	90								1919	2.3	70			1950	1.3	40	
12 Su	0544	1.0	30		27 M	0516	1.3	40		12 W	0048	14.4	440		27 Th	0036	14.1	430		12 Sa	0118	14.4	440		27 Su	0224	13.5	410	
	1221	14.1	430			1117	14.4	440			0632	2.0	60			0628	2.0	60			0707	3.3	100			0803	3.6	110	
	1809	3.3	100			1734	2.6	80			1255	14.1	430			1258	14.8	450			1318	14.4	440			1511	14.8	450	
						2341	14.1	430			1918	3.0	90			1912	1.3	40			2002	2.							

Puerto Ingeniero White, Argentina, 2020

Times and Heights of High and Low Waters

October				November				December			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm
1 Th	0707 1231 1910	13.5 3.6 110	410	16 F	0517 1120 1727 2359	12.8 3.6 110 110	390	1 Su	0122 0806 1348 2024	3.0 14.4 2.0 14.4	90 440 60 440
2 F	0056 0757 1323 2003	2.6 14.1 3.0 14.4	80 430 90 440	17 Sa	0617 1218 1824	13.1 3.3 13.5	400 100 410	2 M	0206 0844 1431 2107	3.0 14.4 2.0 14.4	90 440 60 440
3 Sa	0147 0840 1410 2050	2.3 14.4 2.6 14.4	70 440 80 440	18 Su	0056 0706 1313 1922	3.6 13.1 3.0 13.5	110 400 90 410	3 Tu	0245 0916 1512 2144	2.6 14.4 1.6 14.8	80 440 50 450
4 Su	0231 0917 1454 2132	2.3 14.4 2.3 14.8	70 440 70 450	19 M	0148 0746 1405 2021	3.6 13.5 2.3 13.5	110 410 70 410	4 W	0320 0940 1549 2215	3.0 14.1 1.6 14.4	90 430 50 440
5 M	0311 0949 1535 2209	2.0 14.4 2.0 14.8	60 440 60 450	20 Tu	0235 0822 1457 2117	3.3 13.8 1.6 13.5	100 420 50 410	5 Th	0350 0949 1624 2239	3.0 14.1 1.6 14.4	90 430 50 440
6 Tu	0347 1015 1615 2240	2.0 14.4 2.0 14.8	60 440 60 450	21 W	0321 0901 1549 2211	3.0 14.4 1.3 13.8	90 440 40 420	6 F	0419 1003 1657 2303	3.0 14.1 1.6 14.4	90 430 50 440
7 W	0420 1030 1652 2306	2.3 14.4 2.0 14.8	70 440 60 450	22 Th	0407 0950 1642 2305	2.6 14.4 1.0 13.8	80 440 30 420	7 Sa	0450 1031 1731 2331	3.0 14.4 1.6 14.4	90 440 50 440
8 Th	0450 1042 1727 2332	2.6 14.4 2.0 14.8	80 440 60 450	23 F	0455 1057 1736	2.3 14.4 0.7	70 440 20	8 Su	0525 1111 1809	3.0 14.4 1.3	90 440 40
9 F	0520 1108 1803	2.6 14.4 1.6	80 440 50	24 Sa	0000 0546 1227 1831	14.1 2.6 14.4 1.0	430 80 440 30	9 M	0007 0606 1202 1851	14.8 3.0 14.8 1.3	450 90 450 40
10 Sa	0002 0554 1146 1841	14.8 3.0 14.4 1.6	450 90 440 50	25 Su	0101 0643 1346 1927	13.8 3.0 14.4 1.3	420 90 440 40	10 Tu	0050 0654 1301 1937	14.4 3.0 14.8 1.6	440 90 450 50
11 Su	0039 0633 1234 1923	14.4 3.0 14.8 1.6	440 90 450 50	26 M	0207 0746 1454 2026	13.5 3.6 14.4 2.0	410 110 440 60	11 W	0139 0749 1404 2028	14.1 3.0 14.4 2.0	430 90 440 60
12 M	0122 0719 1330 2009	14.4 3.3 14.8 2.0	440 100 450 60	27 Tu	0320 0857 1556 2127	13.5 3.9 14.4 2.6	410 120 440 80	12 Th	0235 0849 1505 2123	13.8 3.3 14.4 3.0	420 100 440 90
13 Tu	0212 0812 1430 2101	13.8 3.6 14.4 2.3	420 110 440 70	28 W	0432 1008 1654 2230	13.5 3.9 14.4 3.0	410 120 440 90	13 F	0338 0952 1605 2223	13.5 3.3 14.1 3.6	410 100 430 110
14 W	0309 0912 1530 2157	13.5 3.9 14.4 3.0	410 120 440 90	29 Th	0538 1114 1750 2333	13.8 3.3 14.4 3.3	420 100 440 100	14 Sa	0441 1055 1704 2325	13.5 3.0 13.8 3.9	410 90 420 120
15 Th	0412 1016 1629 2258	13.1 3.9 14.1 3.3	400 120 430 100	30 F	0635 1211 1845	14.1 3.0 14.4	430 90 440	15 Su	0539 1154 1803	13.5 2.6 13.5	410 80 410
16 F	0054 0639 1324 1956	4.6 13.8 2.0 12.8	140 420 60 390	31 Sa	0031 0723 1301 1937	3.3 14.4 2.6 14.4	100 440 80 440	16 M	0024 0627 1250 1903	4.3 13.5 2.3 13.1	130 410 70 400
17 Sa	0147 0720 1418 2056	4.3 13.8 1.6 12.8	130 420 50 390	1 Su	0135 0803 1403 2036	3.6 14.4 1.6 14.4	110 440 50 440	17 Tu	0119 0708 1344 2004	3.9 13.8 2.0 13.1	120 420 60 400
18 Su	0237 0806 1511 2148	3.9 13.8 1.3 13.1	120 420 40 400	2 M	0215 0835 1443 2115	3.6 14.1 1.6 14.4	110 430 50 440	18 W	0209 0746 1437 2102	3.9 14.1 1.6 13.1	120 430 50 400
19 M	0327 0910 1604 2238	3.6 13.8 1.3 13.5	110 420 40 410	3 Tu	0249 0858 1521 2148	3.6 14.1 1.6 14.4	110 430 50 440	19 Th	0257 0828 1529 2156	3.3 14.1 1.3 13.5	100 430 40 410
20 Tu	0419 1048 1655 2330	3.3 13.8 1.6 13.8	100 420 50 420	4 W	0319 0911 1555 2213	3.6 13.8 1.6 14.1	110 420 50 430	20 F	0345 0921 1622 2249	3.0 14.4 1.0 13.8	90 440 30 420
21 W	0513 1207 1747	3.3 14.1 1.3	100 430 40	5 Sa	0350 0931 1628 2237	3.6 13.8 1.6 14.4	110 420 50 440	21 Su	0435 1042 1715 2344	3.0 14.1 1.0 13.8	90 430 30 420
22 Th	0026 0611 1309 1838	14.1 3.0 14.4 1.6	430 90 440 50	6 M	0423 1003 1703 2305	3.3 14.1 1.6 14.4	100 430 50 440	22 Tu	0529 1218 1809	3.0 14.1 1.0	90 430 30
23 F	0125 0712 1404 1929	14.1 3.0 14.4 2.3	430 90 440 70	7 W	0501 1047 1742 2340	3.3 14.1 1.3 14.8	100 430 40 450	23 Th	0044 0627 1330 1903	13.8 3.3 14.4 1.3	420 100 440 40
24 Sa	0225 0814 1456 2023	14.1 3.0 14.4 3.0	430 90 440 90	8 M	0546 1142 1824	3.0 14.4 1.3	90 440 40	24 Tu	0149 0730 1432 1959	13.8 3.3 14.4 2.0	420 100 440 60
25 Su	0323 0915 1545 2118	14.1 2.6 14.4 3.6	430 80 440 110	9 W	0022 0636 1243 1910	14.8 2.6 14.4 1.6	450 80 440 50	25 Th	0256 0838 1529 2057	13.8 3.3 14.4 2.6	420 100 440 80
26 M	0417 1012 1635 2217	14.4 2.3 14.1 3.9	440 70 430 120	10 Sa	0111 0731 1346 1959	14.4 2.6 14.4 2.0	440 80 440 60	26 Su	0402 0945 1623 2158	13.8 3.3 14.4 3.3	420 100 440 100
27 Tu	0507 1105 1725 2315	14.4 2.0 14.1 4.3	440 60 430 130	11 M	0208 0831 1447 2053	14.4 2.3 14.4 3.0	440 70 440 90	27 Tu	0501 1047 1717 2300	14.1 3.0 14.4 3.6	430 90 440 110
28 W	0552 1155 1817	14.4 2.0 14.1	440 60 430	12 W	0310 0932 1545 2152	14.1 2.3 13.8 3.6	430 70 420 110	28 Th	0554 1142 1809 2358	14.4 2.3 14.4 3.6	440 70 440 110
29 Th	0009 0634 1243 1909	4.3 14.4 2.0 14.1	130 440 60 430	13 F	0412 1033 1644 2254	13.8 2.3 13.5 4.3	420 70 410 130	29 Sa	0642 1232 1901	14.4 2.0 14.4	440 60 440
30 F	0057 0713 1328 1958	4.3 14.1 2.0 14.1	130 430 60 430	14 M	0509 1132 1745 2356	13.8 2.0 13.1 4.6	420 60 400 140	30 Tu	0050 0724 1319 1950	3.6 14.4 2.0 14.4	110 440 60 440
31 Sa	0138 0747 1411 2042	4.3 14.1 2.0 14.1	130 430 60 430	15 W	0557 1228 1849	13.8 2.0 12.8	420 60 390	31 Th	0135 0803 1403 2036	3.6 14.4 1.6 14.4	110 440 50 440

Time meridian 45° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Comodoro Rivadavia, Argentina, 2020**Times and Heights of High and Low Waters**

January				February				March																
Time	Height			Time	Height			Time	Height			Time	Height											
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm					
1 W	0300	2.0	60	16	0258	1.0	30	1	0353	2.3	70	16	0411	1.3	40	1	0327	2.6	80	16	0352	1.6	50	
	0915	17.7	540	16	0903	19.0	580	1	0959	17.1	520	16	1017	18.7	570	1	0921	17.1	520	16	0952	18.7	570	
	1512	3.9	120	16	1508	3.0	90	1	1615	3.6	110	16	1636	2.3	70	1	1548	3.3	100	16	1618	1.6	50	
	2113	17.1	520	16	2109	19.0	580	1	2208	16.1	490	16	2241	18.4	560	1	2138	16.7	510	16	2224	18.4	560	
2 Th	0339	2.3	70	17	0339	1.0	30	2	0432	3.0	90	17	0459	2.3	70	2	0400	3.3	100	17	0438	2.6	80	
	0955	17.4	530	17	0950	18.7	570	2	1038	16.7	510	17	1109	17.7	540	2	0956	16.7	510	17	1042	17.7	540	
	1556	3.9	120	17	1555	3.0	90	2	1701	3.9	120	17	1733	2.6	80	2	1626	3.6	110	17	1711	2.3	70	
	2155	16.1	490	17	2200	18.4	560	2	2253	15.4	470	17	2342	17.1	520	2	2219	16.1	490	17	2323	17.4	530	
3 F	0421	2.6	80	18	0425	1.6	50	3	0515	3.6	110	18	0554	3.3	100	3	0437	3.6	110	18	0530	3.6	110	
	1037	16.7	510	18	1041	18.4	560	3	1121	16.1	490	18	1208	16.7	510	3	1035	16.1	490	18	1140	16.4	500	
	1644	4.3	130	18	1650	3.0	90	3	1752	4.3	130	18	1834	3.3	100	3	1708	3.9	120	18	1809	3.0	90	
	2242	15.4	470	18	2258	17.7	540	3	2346	15.1	460	18	2309	15.4	470	3	2309	15.4	470	18	2309	15.4	470	
4 Sa	0508	3.0	90	19	0519	2.3	70	4	0605	4.3	130	19	0051	16.4	500	4	0520	4.3	130	19	0031	16.1	490	
	1123	16.1	490	19	1137	17.7	540	4	1211	15.4	470	19	0654	4.3	130	4	1122	15.4	470	19	0628	4.6	140	
	1738	4.6	140	19	1753	3.3	100	4	1849	4.6	140	19	1314	16.1	490	4	1759	4.3	130	19	1248	15.4	470	
	2334	14.8	450	19	2334	14.8	450	4	1940	3.6	110	19	1940	3.6	110	4	1940	3.6	110	19	1913	3.6	110	
5 Su	0600	3.6	110	20	0002	16.7	510	5	0046	14.8	450	20	0206	16.1	490	5	0007	14.8	450	20	0144	15.7	480	
	1214	15.7	480	20	0619	3.3	100	5	0700	4.9	150	20	0755	4.9	150	5	0612	4.9	150	20	0730	5.2	160	
	1837	4.6	140	20	1238	17.1	520	5	1306	15.4	470	20	1426	16.1	490	5	1219	15.1	460	20	1403	15.1	460	
				20	1900	3.6	110	5	1948	4.6	140	20	2047	3.6	110	5	1858	4.3	130	20	2020	3.9	120	
6 M	0033	14.4	440	21	0114	16.4	500	6	0151	14.8	450	21	0315	16.1	490	6	0114	14.8	450	21	0252	15.7	480	
	0656	4.3	130	21	0722	3.9	120	6	0758	5.2	160	21	0857	5.2	160	6	0711	5.2	160	21	0833	5.2	160	
	1308	15.4	470	21	1344	16.7	510	6	1405	15.4	470	21	1532	16.1	490	6	1324	15.1	460	21	1511	15.4	470	
	1938	4.6	140	21	2007	3.6	110	6	2048	4.6	140	21	2156	3.6	110	6	2000	4.3	130	21	2128	3.6	110	
7 Tu	0136	14.4	440	22	0227	16.4	500	7	0255	15.4	470	22	0415	16.4	500	7	0221	15.4	470	22	0350	16.4	500	
	0754	4.6	140	22	0824	4.6	140	7	0855	5.6	170	22	0958	5.6	170	7	0812	5.2	160	22	0936	5.2	160	
	1403	15.7	480	22	1450	17.1	520	7	1504	15.7	480	22	1629	16.4	500	7	1430	15.4	470	22	1607	15.7	480	
	2038	4.6	140	22	2113	3.6	110	7	2147	3.9	120	22	2259	3.3	100	7	2103	3.9	120	22	2228	3.6	110	
8 W	0238	15.1	460	23	0334	16.7	510	8	0356	16.1	490	23	0507	17.1	520	8	0325	16.1	490	23	0439	16.7	510	
	0850	4.9	150	23	0923	4.9	150	8	0952	5.2	160	23	1056	5.2	160	8	0912	4.9	150	23	1033	4.9	150	
	1456	16.1	490	23	1550	17.1	520	8	1601	16.7	510	23	1718	16.7	510	8	1533	16.4	500	23	1654	16.4	500	
	2135	4.3	130	23	2217	3.3	100	8	2246	3.6	110	23	2349	3.3	100	8	2206	3.3	100	23	2316	3.3	100	
9 Th	0335	15.7	480	24	0434	17.4	530	9	0451	17.1	520	24	0552	17.4	530	9	0423	17.4	530	24	0522	17.1	520	
	0944	5.2	160	24	1021	5.2	160	9	1050	4.9	150	24	1148	4.9	150	9	1014	4.6	140	24	1124	4.6	140	
	1546	16.4	500	24	1645	17.4	530	9	1654	17.4	530	24	1801	17.1	520	9	1631	17.7	540	24	1735	16.7	510	
	2229	3.9	120	24	2316	3.0	90	9	2342	3.0	90	24	2401	17.1	520	9	2309	2.6	80	24	2358	3.3	100	
10 F	0428	16.4	500	25	0526	17.7	540	10	0541	18.0	550	25	0030	3.0	90	10	0515	18.4	560	25	0601	17.4	530	
	1036	5.2	160	25	1115	5.2	160	10	1148	4.6	140	25	0633	17.7	540	10	1117	3.9	120	25	1209	4.3	130	
	1633	17.1	520	25	1734	17.7	540	10	1745	18.4	560	25	1233	4.6	140	10	1724	3.9	120	25	1813	17.1	520	
	2321	3.3	100	25				10				25	1840	17.4	530	10				25				
11 Sa	0517	17.1	520	26	0007	3.0	90	11	0035	2.3	70	26	0107	3.0	90	11	0006	2.0	60	26	0037	3.3	100	
	1127	4.9	150	26	0613	18.0	550	11	0629	18.7	570	26	0710	17.7	540	11	0603	19.4	590	26	0637	17.7	540	
	1718	17.4	530	26	1205	5.2	160	11	1242	3.9	120	26	1315	4.3	130	11	1217	3.3	100	26	1252	3.9	120	
				26	1818	17.7	540	11	1834	19.0	580	26	1915	17.4	530	11	1815	19.7	600	26	1849	17.4	530	
12 Su	0010	3.0	90	27	0050	2.6	80	12	0122	1.3	40	27	0143	2.6	80	12	0058	1.3	40	27	0115	3.3	100	
	0604	17.7	540	27	0657	18.0	550	12	0715	19.7	600	27	0744	17.7	540	12	0650	20.0	610	27	0710	17.7	540	
	1216	4.9	150	27	1251	4.9	150	12	1330	3.3	100	27	1355	3.6	110	12	1311	2.3	70	27	1332	3.6	110	
	1804	18.0	550	27	1859	17.7	540	12	1921	19.7	600	27	1950	17.4	530	12	1905	20.3	620	27	1924	17.4	530	
13 M	0056	2.3	70	28	0128	2.6	80	13	0205	1.0	30	28	0218	2.6	80	13	0144	1.0	30	28	0152	3.3	100	
	0649	18.4	560	28	0736	18.0	550	13	0759	20.0	610	28	0817	17.7	540	13	0736	20.3	620	28	0742	17.4	530	
	1302	4.3	130	28	1333	4.6	140	13	1416	2.6	80	28	1433	3.3	100	13	1359	1.6	50	28	1411	3.3	100	
	1849	18.7	570	28	1937	17.7	540	13	2009	20.0	610	28	2025	17.4	530	13	1953	20.7	630	28	1958	17.4	530	
14 Tu	0139	2.0	60	29	0204	2.3	70	14	0246	0.7	20	29	0252	2.6	80	14	0227	1.0	30	29	0227	3.3	100	
	0734	19.0	580	29	0813	18.0	550	14	0844	20.0	610	29	0849	17.7	540	14	0820	20.3	620	29	0813	17.4	530	
	1345	3.9	120	29	1413	3.9	120	14</																

Comodoro Rivadavia, Argentina, 2020

Times and Heights of High and Low Waters

April				May				June			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft	h m	ft	h m	ft	h m	ft	h m	ft	h m	ft
1 W	0404 4.3 130 0956 16.1 490 1630 3.6 110 2241 15.7 480	16 Th	0506 4.3 130 1115 16.1 490 1744 3.0 90	1 F	0419 4.9 150 1020 15.4 470 1649 3.6 110 2320 15.7 480	16 Sa	0537 4.9 150 1152 15.1 460 1814 3.6 110	1 M	0001 16.7 510 0600 4.6 140 1215 16.1 490 1835 3.3 100	16 Tu	0055 16.1 490 0706 4.3 130 1316 14.8 450 1929 3.9 120
2 Th	0445 4.6 140 1044 15.4 470 1717 3.9 120 2340 15.4 470	17 F	0010 16.4 500 0603 4.9 150 1222 15.1 460 1845 3.6 110	2 Sa	0513 4.9 150 1123 15.1 460 1749 3.6 110	17 Su	0044 16.1 490 0638 4.9 150 1259 14.8 450 1913 3.6 110	2 Tu	0103 17.1 520 0707 3.9 120 1323 16.4 500 1939 3.0 90	17 W	0148 16.1 490 0803 3.9 120 1414 15.1 460 2022 3.9 120
3 F	0537 4.9 150 1145 15.1 460 1817 3.9 120	18 Sa	0118 15.7 480 0705 5.2 160 1335 14.8 450 1949 3.9 120	3 Su	0024 15.7 480 0616 4.9 150 1234 15.4 470 1856 3.6 110	18 M	0142 16.1 490 0740 4.6 140 1402 15.1 460 2011 3.9 120	3 W	0203 17.7 540 0810 3.3 100 1428 17.4 530 2037 3.0 90	18 Th	0237 16.4 500 0856 3.6 110 1506 15.7 480 2112 4.3 130
4 Sa	0046 15.1 460 0639 5.2 160 1255 15.1 460 1922 3.9 120	19 Su	0221 15.7 480 0809 4.9 150 1441 15.1 460 2051 3.9 120	4 M	0129 16.4 500 0722 4.6 140 1343 16.1 490 2000 3.3 100	19 Tu	0235 16.4 500 0838 4.3 130 1457 15.4 470 2104 3.9 120	4 Th	0258 18.4 560 0909 2.6 80 1528 18.4 560 2132 3.0 90	19 F	0322 16.7 510 0946 3.3 100 1554 16.4 500 2200 4.3 130
5 Su	0154 15.7 480 0742 4.9 150 1405 15.7 480 2027 3.6 110	20 M	0316 16.4 500 0910 4.6 140 1536 15.7 480 2146 3.6 110	5 Tu	0230 17.4 530 0825 3.9 120 1448 17.4 530 2101 3.0 90	20 W	0323 16.7 510 0931 3.9 120 1545 16.1 490 2152 3.9 120	5 F	0351 19.0 580 1005 2.3 70 1624 19.4 590 2225 3.3 100	20 Sa	0404 17.1 520 1035 3.3 100 1638 16.7 510 2247 4.6 140
6 M	0257 16.7 510 0844 4.3 130 1509 16.7 510 2130 3.0 90	21 Tu	0404 16.7 510 1004 4.3 130 1622 16.1 490 2234 3.6 110	6 W	0325 18.4 560 0925 3.3 100 1546 18.4 560 2158 2.6 80	21 Th	0405 17.4 530 1020 3.6 110 1629 16.7 510 2238 3.9 120	6 Sa	0441 19.4 590 1100 2.0 60 1718 19.7 600 2318 3.6 110	21 Su	0443 17.1 520 1121 3.3 100 1722 17.1 520 ● 2333 4.9 150
7 Tu	0354 17.7 540 0946 3.9 120 1608 18.0 550 2231 2.6 80	22 W	0446 17.4 530 1053 3.9 120 1704 16.7 510 ● 2318 3.6 110	7 Th	0417 19.4 590 1024 2.6 80 1642 19.4 590 2254 2.6 80	22 F	0443 17.4 530 1107 3.3 100 1710 17.1 520 ● 2323 4.3 130	7 Su	0530 19.7 600 1155 2.0 60 1810 19.7 600	22 M	0522 17.1 520 1207 3.3 100 1804 17.4 530
8 W	0446 19.0 580 1048 3.3 100 1703 19.4 590 2331 2.0 60	23 Th	0524 17.4 530 1139 3.6 110 1742 17.1 520	8 F	0506 20.0 610 1122 2.0 60 1735 20.0 610 2350 2.6 80	23 Sa	0520 17.4 530 1152 3.3 100 1749 17.4 530	8 M	0012 3.9 120 0619 19.4 590 1248 2.0 60 1902 19.7 600	23 Tu	0019 5.2 160 0601 17.1 520 1252 3.3 100 1846 17.4 530
9 Th	0535 19.7 600 1149 2.3 70 1755 20.0 610	24 F	0001 3.9 120 0559 17.4 530 1223 3.6 110 1819 17.4 530	9 Sa	0554 20.0 610 1219 1.6 50 1826 20.3 620	24 Su	0007 4.6 140 0555 17.4 530 1236 3.6 110 1829 17.4 530	9 Tu	0103 4.3 130 0707 18.7 570 1339 2.0 60 1952 19.0 580	24 W	0102 5.2 160 0642 17.1 520 1333 3.0 90 1929 17.7 540
10 F	0025 2.0 60 0622 20.3 620 1245 2.0 60 1845 20.7 630	25 Sa	0042 3.9 120 0633 17.4 530 1305 3.6 110 1856 17.4 530	10 Su	0043 3.0 90 0642 20.0 610 1312 1.6 50 1918 20.3 620	25 M	0050 4.9 150 0630 17.1 520 1318 3.6 110 1908 17.4 530	10 W	0152 4.3 130 0754 18.4 560 1426 2.0 60 2040 18.7 570	25 Th	0143 5.2 160 0724 17.1 520 1412 3.0 90 2012 17.7 540
11 Sa	0115 1.6 50 0709 20.3 620 1337 1.3 40 1935 20.7 630	26 Su	0122 4.3 130 0705 17.4 530 1345 3.3 100 1932 17.4 530	11 M	0132 3.3 100 0729 19.7 600 1401 1.6 50 2008 19.7 600	26 Tu	0131 5.2 160 0706 17.1 520 1358 3.6 110 1948 17.4 530	11 Th	0239 4.6 140 0842 17.4 530 1511 2.3 70 2128 18.0 550	26 F	0221 4.9 150 0808 17.1 520 1448 2.6 80 2057 17.7 540
12 Su	0201 2.0 60 0754 20.0 610 1424 1.3 40 2025 20.3 620	27 M	0200 4.3 130 0738 17.1 520 1422 3.3 100 2010 17.1 520	12 Tu	0219 3.6 110 0816 19.0 580 1448 1.6 50 2058 19.0 580	27 W	0208 5.2 160 0744 16.7 510 1433 3.3 100 2030 17.1 520	12 F	0326 4.6 140 0930 16.7 510 1557 2.6 80 2217 17.4 530	27 Sa	0300 4.6 140 0856 17.1 520 1527 2.3 70 2145 17.4 530
13 M	0245 2.3 70 0840 19.4 590 1510 1.3 40 2115 19.4 590	28 Tu	0234 4.6 140 0811 16.7 510 1456 3.3 100 2049 17.1 520	13 W	0304 3.9 120 0904 18.0 550 1535 2.0 60 2150 18.4 560	28 Th	0242 5.2 160 0825 16.4 500 1506 3.3 100 2115 17.1 520	13 Sa	0415 4.6 140 1020 15.7 480 1645 3.0 90 ● 2308 16.7 510	28 Su	0345 4.3 130 0949 16.7 510 1614 2.6 80 ● 2237 17.4 530
14 Tu	0329 2.6 80 0927 18.4 560 1557 1.6 50 ● 2208 18.4 560	29 W	0305 4.6 140 0847 16.4 500 1528 3.3 100 2132 16.4 500	14 Th	0351 4.3 130 0954 17.1 520 1624 2.6 80 ● 2244 17.4 530	29 F	0317 4.9 150 0911 16.4 500 1542 3.0 90 2205 16.7 510	14 Su	0508 4.6 140 1115 15.1 460 1738 3.3 100	29 M	0440 3.9 120 1049 16.4 500 1711 2.6 80 2334 17.1 520
15 W	0415 3.6 110 1018 17.4 530 1648 2.3 70 2305 17.4 530	30 Th	0338 4.6 140 0929 16.1 490 1602 3.3 100 ● 2222 16.1 490	15 F	0441 4.6 140 1050 15.7 480 1716 3.0 90 2343 16.4 500	30 Sa	0401 4.9 150 1004 16.1 490 1630 3.0 90 ● 2300 16.4 500	15 M	0001 16.1 490 0606 4.6 140 1215 14.8 450 1833 3.6 110	30 Tu	0545 3.9 120 1154 16.4 500 1815 3.0 90
						31 Su	0456 4.6 140 1106 15.7 480 1729 3.3 100				

Time meridian 45° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Comodoro Rivadavia, Argentina, 2020

Times and Heights of High and Low Waters

July				August				September															
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height												
h m	ft	cm	h m	ft	cm	h m	ft	cm	h m	ft	cm												
1 W	0035 0652 1303 1917	17.1 3.6 110 510	520	16 Th	0054 0724 1327 1940	15.4 3.9 120 450	470	1 Sa	0214 0840 1503 2054	16.7 2.6 80 510	510	16 Su	0154 0837 1448 2049	14.8 3.6 110 450	450	1 Tu	0407 1035 1645 2241	16.1 2.0 60 520	490	16 W	0318 0954 1607 2207	15.4 2.3 70 510	470
2 Th	0136 0755 1410 2016	17.4 3.0 90 520	530	17 F	0147 0820 1426 2033	15.7 3.6 110 460	480	2 Su	0317 0940 1604 2150	17.1 2.3 70 530	520	17 M	0252 0932 1544 2142	15.1 3.0 90 480	460	2 W	0456 1124 1730 2329	16.7 2.0 60 3.9	510	17 Th	0411 1046 1653 2259	16.7 1.6 50 3.0	510
3 F	0234 0854 1513 2111	18.0 2.6 80 3.6	550	18 Sa	0239 0913 1520 2124	15.7 3.3 100 4.6	480	3 M	0413 1037 1657 2244	17.4 2.0 60 4.6	530	18 Tu	0344 1024 1633 2234	15.7 2.6 80 4.3	480	3 Th	0539 1204 1811	17.1 2.0 60	520	18 F	0500 1134 1737 2349	17.7 1.3 40 2.3	540
4 Sa	0330 0950 1612 2204	18.4 2.3 70 3.9	560	19 Su	0326 1003 1610 2214	16.1 3.3 100 4.9	490	4 Tu	0504 1130 1746 2335	17.4 2.0 60 4.6	530	19 W	0433 1114 1719 2323	16.7 2.3 70 3.9	510	4 F	0011 0618 1240 1847	3.6 17.1 2.0 17.7	110	19 Sa	0547 1220 1820	18.7 0.7 20	570
5 Su	0423 1045 1706 2256	18.7 2.0 60 4.3	570	20 M	0411 1052 1657 2302	16.4 3.0 90 4.9	500	5 W	0551 1218 1831	17.4 2.0 60	530	20 Th	0519 1201 1802	17.4 1.6 50	530	5 Sa	0051 0655 1315 1921	3.3 17.1 2.0 17.7	100	20 Su	0037 0634 1304 1903	1.6 19.7 0.7 20.0	50
6 M	0513 1138 1758 2349	18.7 2.0 60 4.6	570	21 Tu	0455 1140 1741 2349	16.7 3.0 90 4.9	510	6 Th	0024 0635 1300 1913	4.3 17.4 2.0 18.0	130	21 F	0012 0605 1246 1845	3.6 18.0 1.3 18.7	110	6 Su	0131 0730 1351 1954	3.0 17.1 2.3 17.4	90	21 M	0123 0721 1346 1945	1.0 19.7 0.7 20.0	30
7 Tu	0602 1230 1847	18.4 2.3 70	560	22 W	0539 1226 1825	17.1 2.6 80	520	7 F	0109 0715 1340 1952	4.3 17.4 2.3 17.7	130	22 Sa	0058 0651 1329 1928	3.0 18.7 1.0 19.0	90	7 M	0210 0805 1426 2026	2.6 16.7 2.3 17.1	80	22 Tu	0208 0808 1428 2029	0.7 19.7 1.0 19.4	20
8 W	0040 0649 1319 1934	4.6 18.0 2.3 18.4	140	23 Th	0036 0623 1310 1908	4.6 17.4 2.3 18.0	140	8 Sa	0152 0755 1418 2028	3.9 17.1 2.3 17.4	120	23 Su	0142 0737 1409 2011	2.3 19.0 1.0 19.0	70	8 Tu	0249 0842 1502 2059	2.6 16.4 2.6 16.7	80	23 W	0254 0858 1512 2115	0.7 19.0 1.6 18.4	20
9 Th	0129 0735 1403 2018	4.6 17.7 2.3 18.0	140	24 F	0119 0707 1351 1951	4.3 17.7 2.0 18.4	130	9 Su	0234 0833 1456 2105	3.6 16.4 2.3 17.1	110	24 M	0226 0825 1450 2055	2.0 18.7 1.0 18.7	60	9 W	0328 0920 1539 2134	2.6 15.7 3.3 16.1	80	24 Th	0343 0951 1601 2205	1.0 17.7 2.6 17.1	30
10 F	0215 0819 1445 2101	4.6 17.1 2.3 17.7	140	25 Sa	0201 0753 1430 2035	3.6 18.0 1.6 18.4	110	10 M	0317 0913 1535 2142	3.3 16.1 2.6 16.7	100	25 Tu	0312 0915 1534 2142	1.6 18.4 1.3 18.0	50	10 Th	0409 1003 1619 2213	3.0 15.1 3.9 15.1	90	25 F	0438 1051 1656 2304	1.6 16.4 3.6 15.7	50
11 Sa	0300 0902 1527 2143	4.3 16.4 2.6 17.1	130	26 Su	0244 0841 1510 2121	3.3 18.0 1.6 18.0	100	11 Tu	0401 0956 1617 2222	3.3 15.4 3.0 16.1	100	26 W	0403 1009 1625 2234	1.6 17.4 2.3 17.1	50	11 F	0456 1054 1707 2300	3.3 14.1 4.6 14.4	100	26 Sa	0541 1203 1801	2.3 15.4 4.6	70
12 Su	0346 0947 1611 2226	3.9 16.1 3.0 16.7	120	27 M	0330 0933 1556 2210	3.0 17.7 2.0 17.7	90	12 W	0450 1043 1705 2306	3.6 14.8 3.6 15.4	110	27 Th	0502 1111 1724 2333	2.3 16.4 3.3 16.1	70	12 Sa	0552 1156 1806	3.9 13.8 4.9	120	27 Su	0016 0651 1324 1913	14.8 3.0 15.1 4.9	450
13 M	0436 1035 1658 2312	3.9 15.4 3.3 16.1	120	28 Tu	0423 1029 1649 2304	3.0 17.1 2.3 17.4	90	13 Th	0543 1138 1758 2357	3.6 14.1 4.3 14.8	110	28 F	0608 1223 1829	2.6 15.7 3.9	80	13 Su	0001 0654 1306 1910	13.8 3.9 13.8 5.2	420	28 M	0140 0808 1437 2029	14.4 3.0 15.4 4.9	440
14 Tu	0530 1129 1750	3.9 14.8 3.6	120	29 W	0526 1133 1751	3.0 16.4 3.0	90	14 F	0641 1240 1856	3.9 14.1 4.6	120	29 Sa	0042 0716 1341 1935	15.4 2.6 15.4 4.6	470	14 M	0110 0757 1415 2013	13.8 3.6 14.4 4.9	420	29 Tu	0255 0924 1536 2142	14.8 2.6 16.1 4.6	450
15 W	0002 0627 1227 1845	15.7 3.9 14.4 3.9	480	30 Th	0004 0632 1243 1854	16.7 3.0 16.1 3.6	510	15 Sa	0055 0740 1346 1953	14.4 3.6 14.1 4.9	440	30 Su	0158 0826 1453 2041	15.4 2.6 15.7 4.6	470	15 Tu	0218 0858 1515 2112	14.1 3.0 15.4 4.6	430	30 W	0353 1022 1625 2237	15.4 2.3 16.7 3.9	470
				31 F	0109 0737 1355 1956	16.4 2.6 16.4 3.9	500						31 M	0308 0934 1554 2144	15.7 2.3 16.4 4.6	480							

Time meridian 45° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Punta Loyola, Argentina, 2020

Times and Heights of High and Low Waters

January				February				March									
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height				
	h m	ft cm		h m	ft cm		h m	ft cm		h m	ft cm		h m	ft cm			
1 W	0221	33.1 1010	16 Th	0240	38.1 1160	1 Sa	0300	32.2 980	16 Su	0347	36.1 1100	1 Su	0221	34.1 1040	16 M	0307	36.4 1110
	0841	12.5 380		0915	7.2 220		0917	13.5 410		1031	10.8 330		0844	11.8 360		0955	10.2 310
	1427	31.8 970		1500	37.4 1140		1519	30.8 940		1624	34.4 1050		1444	32.8 1000		1548	34.4 1050
	2107	11.2 340		2148	6.2 190		2144	13.8 420		2305	12.1 370		2109	13.5 410		2223	13.1 400
2 Th	0301	31.8 970	17 F	0333	36.4 1110	2 Su	0342	31.5 960	17 M	0443	34.1 1040	2 M	0258	33.1 1010	17 Tu	0356	34.1 1040
	0915	13.8 420		1009	9.2 280		1000	14.4 440		1143	12.5 380		0924	12.8 390		1108	12.5 380
	1511	30.5 930		1558	35.8 1090		1608	30.2 920		1739	33.1 1010		1529	31.8 970		1702	32.5 990
	2143	13.1 400		2243	8.5 260		2230	15.1 460		2305	12.1 370		2153	14.8 450		2351	15.4 470
3 F	0346	30.8 940	18 Sa	0430	35.1 1070	3 M	0431	31.2 950	18 Tu	0021	14.1 430	3 Tu	0341	32.5 990	18 W	0504	32.2 980
	0956	15.1 460		1108	11.2 340		1051	15.1 460		0556	33.1 1010		1013	13.8 420		1247	13.1 400
	1602	29.5 900		1703	34.4 1050		1707	29.9 910		1309	12.8 390		1626	30.8 940		1856	32.5 990
	2227	14.4 440		2344	10.5 320		2325	15.7 480		1912	33.1 1010		2247	16.1 490			
4 Sa	0434	30.2 920	19 Su	0533	34.4 1050	4 Tu	0529	31.2 950	19 W	0140	14.1 430	4 W	0440	31.5 960	19 Th	0120	15.1 460
	1045	15.7 480		1216	11.8 360		1152	14.8 450		0727	33.1 1010		1116	14.4 440		0712	31.8 970
	1658	28.9 880		1814	33.8 1030		1813	30.5 930		1421	11.2 340		1738	30.8 940		1359	11.5 350
	2317	15.1 460								2023	34.4 1050		2357	16.1 490		2005	33.8 1030
5 Su	0527	30.5 930	20 M	0050	11.8 360	5 W	0027	15.4 470	20 Th	0246	12.5 380	5 Th	0555	31.2 950	20 F	0226	13.5 410
	1138	15.7 480		0639	34.4 1050		0633	31.8 970		0838	34.4 1050		1238	13.8 420		0823	33.1 1010
	1757	29.5 900		1328	11.5 350		1259	13.8 420		1520	8.9 270		1858	31.8 970		1456	9.5 290
				1927	34.4 1050		1921	32.2 980		2118	36.4 1110					2057	35.4 1080
6 M	0011	15.1 460	21 Tu	0157	11.8 360	6 Th	0135	14.1 430	21 F	0342	10.5 320	6 F	0119	14.8 450	21 Sa	0320	11.2 340
	0621	31.5 960		0744	35.1 1070		0738	33.5 1020		0932	36.1 1100		0716	32.5 990		0915	34.8 1060
	1235	14.8 450		1435	10.2 310		1412	11.5 350		1610	6.9 210		1404	11.2 340		1545	7.9 240
	1855	30.8 940		2032	35.8 1090		2024	34.4 1050		2204	37.7 1150		2010	34.1 1040		2141	36.7 1120
7 Tu	0106	14.4 440	22 W	0259	10.8 330	7 F	0244	11.8 360	22 Sa	0430	8.9 270	7 Sa	0235	11.8 360	22 Su	0406	9.5 290
	0715	32.8 1000		0844	36.4 1110		0840	35.8 1090		1017	37.1 1130		0829	35.1 1070		0958	35.8 1090
	1332	13.1 400		1534	8.2 250		1522	8.5 260		1655	5.2 160		1513	7.9 240		1628	6.6 200
	1951	32.8 1000		2128	37.1 1130		2123	37.1 1130		2244	38.1 1160		2110	37.1 1130		2218	37.4 1140
8 W	0202	12.8 390	23 Th	0355	9.8 300	8 Sa	0348	9.2 280	23 Su	0513	7.5 230	8 Su	0337	8.2 250	23 M	0447	8.2 250
	0807	34.8 1060		0938	37.4 1140		0939	38.1 1160		1056	37.4 1140		0929	37.7 1150		1032	36.1 1100
	1431	10.8 330		1627	6.6 200		1624	5.2 160		1736	4.6 140		1610	4.3 130		1705	6.2 190
	2045	34.8 1060		2217	38.1 1160		2217	39.0 1190		2319	38.1 1160		2203	39.7 1210		2247	37.4 1140
9 Th	0259	11.2 340	24 F	0446	8.5 260	9 Su	0447	6.2 190	24 M	0551	6.9 210	9 M	0432	5.2 160	24 Tu	0520	7.5 230
	0859	36.7 1120		1025	38.1 1160		1034	40.0 1220		1129	37.1 1130		1022	40.4 1230		1100	36.4 1110
	1530	8.5 260		1715	5.2 160		1719	2.6 80		1811	4.9 150		1702	1.6 50		1736	6.6 200
	2137	37.1 1130		2301	38.4 1170		2308	41.0 1250		2348	37.7 1150		2251	41.7 1270		2312	37.4 1140
10 F	0357	9.2 280	25 Sa	0532	7.9 240	10 M	0540	4.3 130	25 Tu	0622	7.2 220	10 Tu	0522	3.0 90	25 W	0546	7.5 230
	0951	38.4 1170		1107	38.1 1160		1125	41.3 1260		1157	36.4 1110		1111	42.3 1290		1127	36.1 1100
	1631	6.2 190		1758	4.6 140		1810	0.7 20		1840	5.9 180		1751	0.3 10		1800	7.2 220
	2229	38.7 1180		2340	38.4 1170		2356	41.7 1270					2337	42.7 1300		2339	37.1 1130
11 Sa	0456	7.5 230	26 Su	0614	7.5 230	11 Tu	0629	3.0 90	26 W	0015	37.1 1130	11 W	0610	1.6 50	26 Th	0609	7.9 240
	1043	39.7 1210		1144	37.4 1140		1214	42.0 1280		0646	7.9 240		1158	43.0 1310		1157	36.1 1100
	1729	4.3 130		1838	4.6 140		1858	0.3 10		1226	35.8 1090		1837	0.0 0		1825	7.9 240
	2320	39.7 1210								1903	7.2 220						
12 Su	0552	5.9 180	27 M	0014	37.4 1140	12 W	0043	42.0 1280	27 Th	0043	36.1 1100	12 Th	0020	43.0 1310	27 F	0009	37.1 1130
	1134	40.4 1230		0650	7.9 240		0717	2.6 80		0709	8.9 270		0656	1.6 50		0635	8.2 250
	1823	2.6 80		1218	36.7 1120		1301	42.0 1280		1257	35.1 1070		1242	42.7 1300		1229	35.8 1090
				1912	5.6 170		1945	1.0 30		1927	8.5 260		1922	1.3 40		1854	8.9 270
13 M	0010	40.4 1230	28 Tu	0045	36.4 1110	13 Th	0128	41.0 1250	28 F	0114	35.4 1080	13 F	0103	42.3 1290	28 Sa	0042	36.7 1120
	0644	4.9 150		0720	8.5 260		0803	3.6 110		0736	9.5 290		0740	3.0 90		0707	8.5 260
	1225	40.7 1240		1250	35.4 1080		1348	40.7 1240		1331	34.4 1050		1326	41.3 1260		1304	35.4 1080
	1915	2.0 60		1940	7.2 220		2031	3.0 90		1957	10.2 310		2005	3.6 110		1927	9.8 300
14 Tu	0100	40.0 1220	29 W	0115	35.4 1080	14 F	0213	39.7 1210	29 Sa	0147	34.8 1060	14 Sa	0144	40.7 1240	29 Su	0115	36.4 1110
	0735	4.9 150		0743	9.8 300		0849	5.6 170		0808	10.8 330		0823	4.9 150		0741	9.2 280
	1315	40.0 1220		1324	34.1 1040		1435	39.0 1190		1406	33.5 1020		1410	39.4 1200		1340	35.1 1070
	2005	2.6 80		2003	8.9 270		2118	5.9 180		2030	11.8 360		2048	6.6 200		2003	11.2 340
15 W	0150	39.4 1200	30 Th	0148	34.1 1040	15 Sa	0259	38.1 1160	15 Su	0224	38.7 1180	15 Su	0224	38.7 1180	30 M	0149	35.8 1090
	0824	5.9 180		0808	11.2 340		0937	8.2 250		0907	7.5 230		0907	7.5 230		0818	10.2 310
	1407	39.0 1190		1359	33.1 1010		1526	36.7 1120		1455	37.1 1130		1455	37.1 1130		1419	34.1 1040
	2056	3.9 120		2030	10.5 320		2207	9.2 280		2132	10.2 310		2132	10.2 310		2042	12.8 390
		31 F	0222	33.1 1010									31 Tu	0225	34.8 1060		
			0839	12.5 380										0900	11.2 340		
			1437	31.8 970										1503	33.1 1010		
			2104	12.5 380										2127	14.1 430		

Time meridian 45° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Punta Loyola, Argentina, 2020

Times and Heights of High and Low Waters

April					May					June																			
Time		Height			Time		Height			Time		Height			Time		Height												
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm										
1 W	0306	33.5	1020		16 Th	0423	31.5	960		1 F	0350	32.8	1000		16 Sa	0528	30.2	920		1 M	0029	11.8	360		16 Tu	0011	15.4	470	
	0949	12.5	380			1214	12.5	380			1059	11.5	350			1232	12.5	380			0626	33.8	1030			0629	29.5	900	
	1559	31.8	970			1826	32.2	980			1703	32.5	990			1840	31.8	970			1305	9.2	280			1239	14.4	440	
	2222	15.4	470								2335	14.1	430								1902	35.4	1080			1852	31.8	970	
2 Th	0403	32.2	980		17 F	0048	15.4	470		2 Sa	0521	31.8	970		17 Su	0101	15.1	460		2 Tu	0133	10.8	330		17 W	0101	15.1	460	
	1057	13.5	410			0642	30.5	930			1222	11.2	340			0700	30.2	920			0731	35.1	1070			0721	30.2	920	
	1715	31.2	950			1325	12.1	370			1824	33.1	1010			1328	12.8	390			1404	8.5	260			1326	14.4	440	
	2340	15.7	480			1933	33.1	1010								1930	32.5	990			1959	36.7	1120			1938	32.5	990	
3 F	0529	31.2	950		18 Sa	0154	14.1	430		3 Su	0054	13.1	400		18 M	0155	14.4	440		3 W	0233	9.2	280		18 Th	0150	14.1	430	
	1232	12.8	390			0755	31.8	970			0649	32.8	1000			0753	30.8	940			0829	36.4	1110			0809	31.2	950	
	1842	32.2	980			1422	10.8	330			1931	35.1	1070			1414	12.5	380			1501	7.9	240			1414	13.8	420	
						2025	34.1	1040								2007	33.1	1010			2051	38.1	1160			2022	33.8	1030	
4 Sa	0110	14.1	430		19 Su	0248	12.5	380		4 M	0159	10.8	330		19 Tu	0236	13.5	410		4 Th	0330	7.9	240		19 F	0240	12.5	380	
	0704	32.2	980			0846	32.8	1000			0757	35.1	1070			0830	31.5	960			0923	37.7	1150			0855	32.8	1000	
	1353	10.5	320			1510	9.8	300			1431	7.2	220			1448	12.5	380			1555	7.5	230			1502	12.8	390	
	1954	34.4	1050			2106	35.1	1070			2027	37.4	1140			2039	33.8	1030			2140	39.4	1200			2107	35.1	1070	
5 Su	0221	11.2	340		20 M	0333	11.2	340		5 Tu	0257	8.2	250		20 W	0305	12.5	380		5 F	0425	6.2	190		20 Sa	0330	10.8	330	
	0816	35.1	1070			0925	33.8	1030			0853	37.4	1140			0902	32.5	990			1014	38.7	1180			0941	34.1	1040	
	1456	7.2	220			1551	9.2	280			1526	5.6	170			1518	11.8	360			1648	7.2	220			1554	11.8	360	
	2052	37.4	1140			2138	35.8	1090			2118	39.4	1200			2112	34.8	1060			2226	39.7	1210			2152	36.1	1100	
6 M	0319	7.9	240		21 Tu	0409	10.2	310		6 W	0350	6.2	190		21 Th	0336	11.5	350		6 Sa	0518	5.2	160		21 Su	0424	9.2	280	
	0914	38.1	1160			0955	34.4	1050			0944	39.4	1200			0937	33.5	1020			1102	39.0	1190			1028	35.8	1090	
	1550	4.3	130			1623	8.9	270			1617	4.6	140			1552	11.5	350			1739	7.2	220			1647	10.5	320	
	2143	39.7	1210			2203	36.1	1100			2204	40.7	1240			2147	35.8	1090			2311	40.0	1220			2238	37.4	1140	
7 Tu	0412	5.2	160		22 W	0437	9.5	290		7 Th	0442	4.6	140		22 F	0413	10.2	310		7 Su	0609	4.6	140		22 M	0518	7.2	220	
	1005	40.4	1230			1022	34.8	1060			1032	40.7	1240			1015	34.8	1060			1149	38.7	1180			1116	36.7	1120	
	1640	2.3	70			1649	8.9	270			1706	4.3	130			1632	10.8	330			1828	7.5	230			1741	9.2	280	
	2229	41.7	1270			2231	36.7	1120			2249	41.7	1270			2225	36.7	1120			2353	39.4	1200			2325	38.1	1160	
8 W	0502	3.3	100		23 Th	0501	8.9	270		8 F	0531	3.6	110		23 Sa	0454	8.9	270		8 M	0657	4.3	130		23 Tu	0612	5.9	180	
	1052	42.0	1280			1052	35.4	1080			1118	41.0	1250			1055	35.8	1090			1234	38.4	1170			1204	37.7	1150	
	1728	1.6	50			1716	8.9	270			1754	4.6	140			1714	10.2	310			1914	8.2	250			1833	8.2	250	
	2313	42.7	1300			2302	37.1	1130			2331	41.7	1270			2305	37.4	1140											
9 Th	0549	2.3	70		24 F	0530	8.5	260		9 Sa	0619	3.3	100		24 Su	0538	7.9	240		9 Tu	0035	38.4	1170		24 W	0013	38.4	1170	
	1138	42.7	1300			1125	35.8	1090			1202	40.7	1240			1137	36.4	1110			0742	4.9	150			0704	4.6	140	
	1814	1.6	50			1748	9.2	280			1840	5.6	170			1759	9.8	300			1318	37.4	1140			1252	38.1	1160	
	2356	42.7	1300			2336	37.4	1140								2346	37.7	1150			1957	8.9	270			1924	7.5	230	
10 F	0635	2.3	70		25 Sa	0604	7.9	240		10 Su	0012	41.0	1250		25 M	0623	6.9	210		10 W	0116	37.1	1130		25 Th	0102	38.4	1170	
	1221	42.0	1280			1202	36.1	1100			0705	3.9	120			1219	37.1	1130			0826	5.9	180			0754	4.3	130	
	1859	3.0	90			1824	9.5	290			1246	39.7	1210			1845	9.5	290			1402	36.1	1100			1342	38.1	1160	
											1925	6.9	210								2038	10.2	310			2014	7.5	230	
11 Sa	0036	42.0	1280		26 Su	0012	37.4	1140		11 M	0051	40.0	1220		26 Tu	0027	37.7	1150		11 Th	0159	35.4	1080		26 F	0153	38.1	1160	
	0720	3.3	100			0642	7.9	240			0751	4.9	150			0710	6.6	200			0907	7.2	220			0846	4.6	140	
	1304	41.0	1250			1240	36.4	1110			1329	38.1	1160			1304	37.1	1130			1446	34.8	1060			1433	37.4	1140	
	1942	5.2	160			1903	9.8	300			2008	8.9	270			1931	9.5	290			2116	11.5	350			2105	8.2	250	
12 Su	0115	40.7	1240		27 M	0048	37.4	1140		12 Tu	0130	38.1	1160		27 W	0110	37.4	1140		12 F	0244	33.8	1030		27 Sa	0247	37.1	1130	
	0803	4.9	150			0721	7.9	240			0835	6.6	200			0758	6.6	200			0946	9.2	280			0938	5.6	170	
	1346	39.0	1190			1319	36.1	1100			1414	36.4	1110			1351	36.4	1110			1532	33.5	1020			1528	36.4	1110	
	2023	7.9	240			1943	10.5	320			2050	10.8	330			2020	9.8	300			2152	13.1	400			2159	9.2	280	
13 M	0154	39.0	1190		28 Tu	0126	36.7	1120		13 W	0212	36.1	1100		28 Th	0156	36.7	1120		13 Sa	0334	31.8	970		28 Su	0346	36.1	1100	
	0845	7.2	220			0803	8.5	260			0922	8.5	260			0850	7.2	220			1024	11.2	340			1034	7.2	220	
	1431	36.7	1120			1402	35.4	1080			1503	34.4	1050			1442	35.8	1090			1622	32.2	980			1626	35.8	1090	
	2104	10.8	330			2026	11.8	360			2135	12.8	390			2113	10.8	330			2232	14.4	440			2258	10.5	320	
14 Tu	0234	36.4	1110		29 W	0205	35.8	1090		14 Th	0259	33.8	1030		29 F	0248	35.4	1080		14 Su	0431	30.5	930		29 M	0450	35.1	1070	
	0931	9.5	290			0849	9.5	290			1017	10.5	320			0948	8.2	250			1106	12.8	390			1134	8.9	270	
	1521	34.4	1050			1449																							

Punta Loyola, Argentina, 2020

Times and Heights of High and Low Waters

July				August				September															
Time		Height		Time		Height		Time		Height		Time		Height									
h	m	ft	cm	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm								
1 W	0106	11.2	340	16 Th	0005	15.1	460	1 Sa	0304	9.8	300	16 Su	0130	12.8	390	1 Tu	0431	5.9	180	16 W	0334	6.2	190
	0704	34.8	1060		0627	29.9	910		0858	35.4	1080		0751	32.5	990		1022	37.7	1150		0930	38.1	1160
	1337	10.5	320		1233	15.4	470		1527	11.5	350		1401	13.8	420		1650	8.2	250		1556	6.9	210
	1929	35.8	1090		1845	31.8	970		2110	36.1	1100		2005	33.8	1030		2236	37.4	1140		2150	39.0	1190
2 Th	0212	10.5	320	17 F	0100	14.4	440	2 Su	0402	7.9	240	17 M	0243	10.5	320	2 W	0515	4.9	150	17 Th	0429	3.6	110
	0808	35.4	1080		0723	30.8	940		0953	36.4	1110		0852	34.8	1060		1101	38.1	1160		1020	40.0	1220
	1439	10.5	320		1327	14.8	450		1622	10.2	310		1510	11.2	340		1732	7.2	220		1649	4.6	140
	2026	36.7	1120		1938	33.1	1010		2204	37.1	1130		2107	35.8	1090		2314	37.4	1140		2241	41.0	1250
3 F	0315	9.2	280	18 Sa	0158	13.1	400	3 M	0454	5.9	180	18 Tu	0350	7.5	230	3 Th	0556	4.6	140	18 F	0520	1.6	50
	0907	36.1	1100		0818	32.5	990		1042	37.4	1140		0948	36.7	1120		1136	37.7	1150		1108	41.7	1270
	1539	10.5	320		1425	13.8	420		1712	8.5	260		1614	8.5	260		1810	7.2	220		1740	3.3	100
	2120	37.4	1140		2031	34.4	1050		2252	37.4	1140		2204	38.1	1160		2348	37.1	1130		2329	42.0	1280
4 Sa	0414	7.5	230	19 Su	0259	11.2	340	4 Tu	0541	4.6	140	19 W	0449	4.6	140	4 F	0631	5.2	160	19 Sa	0609	1.3	40
	1002	37.1	1130		0913	34.1	1040		1126	37.7	1150		1041	38.7	1180		1206	37.1	1130		1154	42.0	1280
	1635	9.5	290		1526	12.1	370		1758	7.5	230		1710	6.2	190		1842	7.5	230		1828	2.6	80
	2211	38.1	1160		2125	35.8	1090		2335	37.4	1140		2258	39.7	1210		1907	8.5	260		1916	3.3	100
5 Su	0508	6.2	190	20 M	0404	8.9	270	5 W	0624	4.3	130	20 Th	0543	2.6	80	5 Sa	0019	36.1	1100	20 Su	0016	42.3	1290
	1053	37.7	1150		1006	36.1	1100		1205	37.7	1150		1131	40.4	1230		0700	6.9	210		0656	1.6	50
	1727	8.5	260		1628	10.2	310		1839	7.2	220		1802	4.3	130		1235	36.4	1110		1238	41.7	1270
	2259	38.4	1170		2218	37.4	1140		1916	7.5	230		2349	41.0	1250		1907	8.5	260		1916	3.3	100
6 M	0558	4.9	150	21 Tu	0505	6.2	190	6 Th	0013	37.1	1130	21 F	0633	1.3	40	6 Su	0050	35.1	1070	21 M	0103	41.3	1260
	1140	37.7	1150		1058	37.7	1150		1241	37.1	1130		1218	41.0	1250		0724	8.5	260		0742	3.6	110
	1816	8.2	250		1727	7.9	240		1916	7.5	230		1851	3.3	100		1305	35.4	1080		1322	40.7	1240
	2344	38.1	1160		2311	38.7	1180		1916	7.5	230		1939	3.6	110		1931	9.8	300		2002	4.9	150
7 Tu	0644	4.3	130	22 W	0601	3.9	120	7 F	0048	36.4	1110	22 Sa	0038	41.7	1270	7 M	0123	34.1	1040	22 Tu	0149	39.7	1210
	1224	37.7	1150		1149	38.7	1180		0737	5.6	170		0720	1.0	30		0750	10.2	310		0828	6.2	190
	1901	7.9	240		1821	6.2	190		1313	36.4	1110		1305	41.0	1250		1337	34.8	1060		1405	39.0	1190
									1946	8.5	260		1939	3.6	110		2000	10.8	330		2050	6.9	210
8 W	0027	37.4	1140	23 Th	0003	39.7	1210	8 Sa	0121	35.4	1080	23 Su	0125	41.0	1250	8 Tu	0158	33.1	1010	23 W	0236	37.4	1140
	0727	4.3	130		0652	2.6	80		0805	7.2	220		0807	2.3	70		0820	11.8	360		0915	9.2	280
	1305	37.1	1130		1238	39.7	1210		1344	35.4	1080		1350	40.4	1230		1412	33.8	1030		1449	37.1	1130
	1941	8.2	250		1911	5.2	160		2010	9.8	300		2025	4.9	150		2034	12.1	370		2142	9.5	290
9 Th	0107	36.7	1120	24 F	0053	40.0	1220	9 Su	0155	34.1	1040	24 M	0213	39.7	1210	9 W	0235	32.2	980	24 Th	0330	35.1	1070
	0806	5.2	160		0741	2.0	60		0829	9.2	280		0854	4.6	140		0856	13.5	410		1009	12.1	370
	1343	36.1	1100		1327	39.7	1210		1416	34.4	1050		1436	39.0	1190		1448	33.1	1010		1539	34.8	1060
	2017	9.2	280		2000	4.9	150		2036	11.2	340		2113	6.9	210		2112	13.1	400		2250	11.5	350
10 F	0145	35.4	1080	25 Sa	0143	39.7	1210	10 M	0231	32.8	1000	25 Tu	0302	38.1	1160	10 Th	0317	31.5	960	25 F	0440	33.1	1010
	0840	6.9	210		0830	2.6	80		0857	11.2	340		0942	7.5	230		0937	14.8	450		1124	14.1	430
	1419	35.1	1070		1416	39.0	1190		1452	33.5	1020		1523	37.4	1140		1529	32.2	980		1645	32.8	1000
	2046	10.5	320		2048	5.9	180		2108	12.5	380		2204	9.2	280		2156	13.8	420				
11 Sa	0224	33.8	1030	26 Su	0234	39.0	1190	11 Tu	0311	31.8	970	26 W	0356	35.8	1090	11 F	0407	30.8	940	26 Sa	0015	11.8	360
	0909	8.9	270		0918	4.3	130		0931	12.8	390		1035	10.8	330		1025	15.7	480		0620	32.8	1000
	1455	33.8	1030		1505	38.1	1160		1530	32.5	990		1615	35.4	1080		1618	31.5	960		1246	14.4	440
	2113	11.8	360		2138	7.5	230		2146	13.8	420		2307	11.5	350		2250	14.1	430		1835	32.5	990
12 Su	0304	32.5	990	27 M	0327	37.4	1140	12 W	0354	30.8	940	27 Th	0502	33.8	1030	12 Sa	0508	30.5	930	27 Su	0127	10.8	330
	0937	10.8	330		1009	6.6	200		1012	14.4	440		1141	13.1	400		1123	16.1	490		0732	34.1	1040
	1534	32.8	1000		1556	36.7	1120		1613	31.8	970		1718	33.8	1030		1721	31.5	960		1353	13.1	400
	2146	13.5	410		2231	9.5	290		2231	14.8	450		2231	14.8	450		2358	13.8	420		1951	33.8	1030
13 M	0349	31.2	950	28 Tu	0424	35.8	1090	13 Th	0445	30.2	920	28 F	0028	12.1	370	13 Su	0620	31.2	950	28 M	0225	9.2	280
	1011	12.5	380		1104	9.2	280		1059	15.4	470		0627	33.1	1010		1234	15.1	460		0827	35.4	1080
	1617	31.8	970		1652	35.8	1090		1703	31.5	960		1300	14.1	430		1836	32.2	980		1448	11.2	340
	2226	14.4	440		2332	11.2	340		2322	14.8	450		1841	33.5	1020						2045	35.1	1070
14 Tu	0438	30.2	920	29 W	0529	34.4	1050	14 F	0543	30.2	920	29 Sa	0146	11.5	350	14 M	0119	12.1	370	29 Tu	0316	7.5	230
	1053	14.1	430		1206	11.5	350		1153	15.7	480		0747	33.8	1030		0733	33.1	1010		0913	36.7	1120
	1703	31.5	960		1753	34.8	1060		1759	31.5	960		1412	13.1	400		1350	12.8	390		1537	9.2	280
	2313	15.1	460								2002		34.1	1040	2002		34.1	1040	1950		33.8	1030	2131	36.4	1110
15 W	0531	29.5	900	30 Th	0043	12.1	370	15 Sa	0022	14.4	440	30 Su	0249	9.5	290	15 Tu	0233	9.2	280	30 W	0402	6.2	190
	1141	15.1	460		0641	33.8	1030		0646	30.8	940		0848	35.4	1080		0835	35.4	1080		0953	37.7	1150
	1753	31.5	960		1315	12.5	380		1254	15.1	460		1511	11.5	350		1457	9.8	300		1621	7.9	240
					1900	34.8	1060		1901	32.5	990		2102	35.4	1080		2054	36.4	1110		2211	36.7	1120
			31 F	0157	11.5	350				31 M	0343	7.5	230										
				0754	34.1	1040					0938	36.7	1120										
				1424	12.5	380																	
				2008	35.1	1070																	

Time meridian 45° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

EXTRA TIDES, 2020

Woods Hole, Massachusetts				Rio de Janeiro, Brazil				May				November				September			
h	m	ft	cm	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm
March				January				1	645	1.0	30	20	1732	3.3	100	23	1609	3.0	90
1	191	3	0	18	2043	3.0	90	11	2254	2.6	80	21	1826	3.0	90		2054	2.3	70
2	201	0	0	February				12	2349	2.6	80	22	1951	3.0	90		2253	2.3	70
16	214	9	0	h	m	ft	cm	28	2228	3.0	90	Santos, Brazil				24	2045	2.3	70
17	225	7	0	15	1854	3.3	100	June					2353	2.6	80				
31	194	4	0	2234	2.3	70	h	m	ft	cm	February				October				
April				16	1554	1.6	50	10	2302	2.3	70	h	m	ft	cm	22	1526	3.3	100
1	204	8	0	2000	3.0	90	11	2347	2.3	70	16	2009	3.0	90		2019	2.3	70	
14	213	5	0	2247	2.6	80	July				17	2156	3.0	90		2204	2.3	70	
15	224	2	0	17	1706	1.3	40	h	m	ft	cm	17	1623	2.0	60	23	2004	2.3	70
16	234	2	0	March				27	2356	2.3	70	March					2258	2.6	80
29	192	7	0	h	m	ft	cm	29	1753	1.6	50	15	1802	3.6	110	November			
May				2	951	3.0	90	2200	2.6	80	16	2147	2.6	80	h	m	ft	cm	
13	211	2	0	2254	2.6	80	August				21	1536	3.3	100		2002	2.6	80	
14	221	7	0	14	1741	3.6	110	h	m	ft	cm		2022	2.6	80	22	1547	3.0	90
September				2149	2.3	70	24	2309	2.0	60	16	1909	3.0	90		1904	2.6	80	
9	204	5	0	2313	2.3	70	25	2221	2.0	60	16	2124	2.6	80		2232	3.0	90	
10	214	1	0	15	1826	3.3	100	26	1619	2.0	60	April							
11	222	9	0	2154	2.3	70	1926	2.6	80	14	2115	3.0	90						
25	231	3	0	16	1526	1.6	50	2256	2.0	60	May								
October				1936	2.6	80	27	1747	2.0	60	13	2202	3.0	90					
9	211	1	0	2200	2.3	70	2058	2.3	70	14	2215	3.0	90						
10	215	9	0	17	1651	1.3	40	2336	2.3	70	July								
24	224	9	0	31	1915	3.0	90	September				27	2324	3.0	90				
25	234	0	0	2154	2.6	80	h	m	ft	cm	29	2053	2.3	70					
November				2359	2.6	80	10	1545	2.0	60	August								
7	204	0	0	April				1913	2.6	80	h	m	ft	cm					
8	212	7	0	h	m	ft	cm	22	2326	1.6	50	11	2334	2.3	70				
21	212	5	0	2	709	1.0	30	23	1800	3.0	90	12	2332	2.6	80				
22	221	8	0	12	1721	3.6	110	24	2204	1.6	50	25	2311	2.6	80				
23	230	6	0	2108	2.3	70	24	1608	2.3	70	26	1658	3.0	90					
				2311	2.6	80	1853	2.6	80	October									
				13	1809	3.0	90	2238	2.0	60	h	m	ft	cm					
				2119	2.3	70	25	2311	2.3	70	9	839	2.6	80					
				14	1500	1.6	50	October				21	1700	3.3	100				
				1919	2.6	80	h	m	ft	cm		2138	1.3	40					
				2138	2.6	80	9	839	2.6	80		2258	1.3	40					
				15	1617	1.3	40	23	1834	2.6	80	22	1741	3.0	90				
				29	2323	3.0	90	2247	2.0	60		2202	1.6	50					
								21	1700	3.3	100		2349	1.6	50				
									2138	1.3	40		2202	1.6	50				
									2258	1.3	40		2349	1.6	50				
									21741	3.0	90		2202	1.6	50				
									2202	1.6	50		2349	1.6	50				
									2349	1.6	50		2202	1.6	50				
									1834	2.6	80		2349	1.6	50				
									2247	2.0	60		2202	1.6	50				

TABLE 2. — TIDAL DIFFERENCES AND OTHER CONSTANTS

EXPLANATION OF TABLE

The publication of full daily predictions is necessarily limited to a comparatively small number of stations. Tide predictions for many other places, however, can be obtained by applying certain differences to the predictions for the reference stations in Table 1. The following pages list the places called "subordinate stations" for which such predictions can be made, and the differences or ratios to be used. These differences or ratios are to be applied to the predictions for the proper reference station which is listed in Table 2 in boldface type above the differences for the subordinate station. The stations in this table are arranged in geographical order. The index to stations at the end of this volume will assist in locating a particular station.

Caution.— The time and height differences listed in Table 2 are average difference derived from comparisons of simultaneous tide observations at the subordinate location and its reference station. Because these figures are constant, they may not always provide for the daily variations of the actual tide, especially if the subordinate station is some distance from the reference station. Therefore, although the application of the time and height differences will generally provide reasonable accurate approximations, they cannot result in predictions as accurate as those listed for the reference stations which are based upon much larger periods of analyses and which do provide for daily variations.

Time differences.—To determine the time of high water or low water at any station listed in this table there is given in the columns headed "Differences, Time" the hours and minutes to be added to or subtracted from the time of high or low water at some reference station. A plus (+) sign indicates that the tide at the subordinate station is later than at the reference station and the difference should be added; a minus (–) sign indicates that it is earlier and should be subtracted.

To obtain the tide at a subordinate station on any date, apply the difference to the tide at the reference station for that same date. In some cases, however, to obtain an a.m. tide it may be necessary to use the preceding day's p.m. tide at the reference station (or to obtain a p.m. tide it may be necessary to use the following day's a.m. tide). For example, if a high water at a reference station occurs at 0200 on July 17, and the tide at the subordinate station occurs 5 hour earlier, the high water at the subordinate station will occur at 2100 on July 16. For the second case, if a high water occurs at a reference station at 2200 on July 2, and the tide at the subordinate station occurs 3 hours later, then high water will occur at 0100 on July 3 at the subordinate station. The necessary allowance for change in date when the international date line is crossed is included in the time difference. In such cases use the same date at the reference station as desired for the subordinate station as explained above.

The results obtained by the application of the time differences will be in the kind of time indicated by the time meridian shown above the name of the subordinate station. Differences in time meridians between a subordinate station and its reference station have been accounted for and no further adjustment by the reader is necessary. Summer or daylight-saving time is not used in the tide tables.

Height differences.—The height of the tide, referred to the datum of charts, is obtained by means of the height differences or ratios. A plus (+) sign indicates that the difference should be added to the height at the reference station, and a minus (–) sign indicates that it should be subtracted. All height differences, ranges, and levels in Table 2 are in feet but may be converted to centimeters by the use of Table 7.

Ratio.— For some stations, use of predicted height difference would give unsatisfactory predictions. In such cases they have been omitted and one or two ratios are given (*). Where two ratios are given, one in the "height of high water" column and one in the "height of low water" column, the high waters and low waters at the reference station should be multiplied by these respective ratios. Where only one is given, the omitted ratio is either unreliable or unknown.

TABLE 2. — TIDAL DIFFERENCES AND OTHER CONSTANTS

For some subordinate stations there is given in parentheses a ratio as well as a correction in feet. In those instances, each predicted high and low water at the reference station should first be multiplied by the ratio and then the correction in feet is added to or subtracted from each product as indicated.

As an example, at Port of Spain, Trinidad, the values in the time and height difference columns in Table 2 are given as -0 44, -1 12, and (*0.31 + 1.4) as referred to the reference station at Punta Gorda, Venezuela. If we assume that the tide predictions in column (1) below are those of Ketchikan on a particular day, application of the time and height correction in columns (2) and (3) would result in the tide predictions for Treadwell Bay in column (4).

(1)		(2)	(3)	(4)		
<i>Time</i> <i>h.m.</i>	<i>Height</i> <i>ft.</i>	<i>Time</i> <i>Corrections</i>	<i>Height</i> <i>Corrections</i>	<i>Time</i> <i>h.m.</i>	<i>Height</i> <i>ft.</i>	<i>Height</i> <i>centimeters</i>
0326	0.6	-1 ^h 12 ^m	x0.31 + 1.4	0214	1.6	49
0900	5.1	-0 ^h 44 ^m	x0.31 + 1.4	0816	3.0	91
1608	-0.3	-1 ^h 12 ^m	x0.31 + 1.4	1456	1.3	40
2148	5.4	-0 ^h 44 ^m	x0.31 + 1.4	2104	3.1	94

Range. — The mean range is the difference in height between mean high water (MHW) and mean low water (MLW). The *spring range* is the average semidiurnal range occurring semimonthly as a result of the Moon being new or full. It is larger than the mean range where the type of tide is either semidiurnal or mixed, and is of not practical significance where the type of tide is diurnal. Where the tide is chiefly of the diurnal type the table gives the *diurnal range*, which is the difference in height between mean higher high water and mean lower low water.

Datum. — The datum of the predictions obtained through the height differences or ratios is also the datum of the largest scale chart for the locality. To obtain the depth at the time of high or low water, the predicted height should be added to the depth on the chart unless such height is negative (–), when it should be subtracted. To find the height at times between high and low water see Table 3. On some charts the depths are given in meters or centimeters and in such cases the heights of the tide can be converted to other units by the use of Table 7. Chart datums for the portion of the world covered by these tables are approximately as follows: *Mean lower low water* for the Pacific coast of the United States, Alaska, and the Hawaiian Islands, mean low water springs for Central American and Mexico. For the rest of the area covered by these tables the datums generally used are approximately *mean low water springs*, *Indian spring low water*, or the *lowest possible low water*.

Mean Tide Level (Half-Tide Level). — The mean tide level is a plane midway between mean low water and mean high water. Tabular values are reckoned from chart depth.

Observations Supporting Predictions.— All tidal predictions made by the National Ocean Service are based upon observations taken at the location in question. For most reference stations these observations often are of a continuing nature. As such, they are used to quality control the predictions and to update the harmonic constants used in generating annual predictions. For subordinate stations, the age and duration of their observations vary from a few days of observation taken decades ago to the most recent survey data.

The precision with which the position, ranges and mean tide level are reported in Table 2 is an indication of the age and analytical history of the supporting observation. Stations whose position is reported to the nearest tenth minute of latitude and longitude and whose ranges and mean tide level are reported to the nearest hundredth foot are supported by the most recent observations, analyzed with regard to current chart datums and the 1983-2001 National Tidal Datum Epoch. Stations whose position is reported to the nearest tenth minute but whose ranges and mean tide level are reported to the nearest tenth foot are typically supported by observations taken in the 1960's and 1970's with analysis based upon the previous National Tidal Datum Epochs. Finally, stations whose positions are reported to the nearest minute and whose ranges and mean tide level are reported to the nearest tenth foot indicated either older supporting observations or simply data not yet reviewed and entered into the Tables with full published precision. NOS is in the continuous process of updating the Tables with all available data.

TABLE 2. — TIDAL DIFFERENCES AND OTHER CONSTANTS

Old observations are not in and of themselves an indication of poor present predictions. Certain coastal areas do not undergo much human or natural modification while other coastal areas are subject to nearly constant modification by both agents. Local knowledge of conditions is still very important to the wise use of these astronomical predictions.

NOTE. — Dashes are entered in the place of data which are unknown, unreliable, or not applicable.

TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Spring	
				High Water	Low Water	High Water	Low Water			
	ARCTIC ARCHIPELAGO Time meridian, local	North	West	h m	h m	ft	ft	ft	ft	ft
				on Hampton Roads, p.120						
1	Princess Royal Islands	72° 45'	117° 45'	+3 14	+3 32	0.0	+0.2	2.3	3.0	1.4
3	Mercy Bay, Banks Island	74° 07'	118° 15'	+4 05	+4 05	-0.8	+0.1	1.6	2.0	1.0
5	Winter Harbour, Melville Island	74° 47'	110° 48'	+4 44	+4 40	+0.2	+0.2	2.5	3.2	1.6
7	Bridport Inlet, Melville Island	74° 56'	108° 49'	+4 33	+4 33	+1.3	+1.0	2.8	4.1	2.5
9	Byam Martin Island	75° 10'	103° 34'	+3 42	+3 42	+1.8	+1.5	2.8	3.7	3.0
11	Cambridge Bay, Dease Strait	69° 07'	105° 07'	+2 35	+2 30	-0.4	+1.2	1.0	1.3	1.7
	Time meridian, 75° W			on Harrington Harbour, p.12						
13	Igloolik, Fury and Hecla Strait	69° 21'	81° 37'	+9 12	+9 12	+1.6	+0.8	4.6	6.0	4.7
15	Hall Beach, Foxe Basin	68° 45'	81° 13'	+9 45	+10 15	(*0.45+0.5)		1.7	2.0	2.1
	Time meridian, local									
17	Port Kennedy, Bellot Strait	72° 01'	94° 12'	+1 35	+1 44	+0.5	+0.8	3.5	4.5	4.2
19	Port Bowen, Prince Regent Inlet	73° 14'	88° 55'	+1 01	+1 06	+0.9	+1.3	3.4	4.5	4.6
21	Port Leopold, Prince Regent Inlet	73° 48'	90° 15'	+0 50	+0 45	+0.9	+0.1	4.6	5.9	4.0
23	Beechy Island, Barrow Strait	74° 43'	91° 54'	+1 30	+1 35	+1.0	-0.1	4.9	6.4	4.0
25	Assistance Bay, Barrow Strait	74° 37'	94° 15'	+1 56	+1 57	-0.1	+0.6	3.1	4.1	3.8
27	Griffith Island, Barrow Strait	74° 35'	95° 30'	+2 12	+2 13	-0.3	+0.5	3.0	3.9	3.6
29	Refuge Cove, Wellington Channel	75° 31'	92° 10'	+1 23	+1 38	+0.6	+0.2	4.2	5.5	3.9
31	Penny Strait	76° 52'	97° 00'	+1 53	+2 03	*0.39	*0.38	1.5	1.9	1.4
				on Hampton Roads, p.120						
33	Cape Columbia, Lincoln Sea	83° 14'	69° 55'	-0 55	-0 55	-1.8	0.0	0.8	1.1	0.5
35	Alert, Lincoln Sea	82° 30'	62° 20'	+1 26	+1 17	-0.4	+0.6	1.6	2.2	1.5
37	Cape Sheridan, Lincoln Sea	82° 29'	61° 30'	+1 37	+1 28	-0.5	+0.2	1.8	2.5	1.2
39	Cape Bryant, North Greenland	82° 21'	55° 30'	+3 33	+3 35	-1.4	+0.2	1.1	1.5	0.7
41	Cape Morris Jesup, North Greenland	83° 40'	34° 15'	+1 51	+1 43	-2.0	0.0	0.4	0.6	0.3
	GREENLAND East Coast			on Harrington Harbour, p.12						
43	Danmarks Havn	76° 46'	18° 46'	-12 41	-12 32	-0.8	-0.6	3.6	4.7	2.8
45	Cape Borgen	75° 26'	18° 05'	-11 04	-11 03	*0.80	*0.81	3.0	3.9	2.8
47	Lille Pendulum	74° 37'	18° 29'	-11 40	-11 39	*0.80	*0.81	3.0	4.0	2.8
49	Finsch Islands	73° 59'	21° 08'	-12 18	-12 18	*0.81	*0.75	3.2	4.3	2.8
51	Myggbukta, Foster Bay	73° 28'	21° 33'	-11 57	-12 00	-0.9	-0.5	3.4	4.4	2.8
53	Blomsterbugten	73° 21'	25° 17'	-12 15	-12 27	-0.4	-0.3	3.7	4.8	3.2
	Time meridian, 30° W									
55	Danmarks Island, Scoresby Sound	70° 27'	26° 12'	-11 45	-11 45	*0.63	*0.62	2.4	3.3	2.2
	Time meridian, 45° W									
57	Angmagssalik (Kulusuk)	65° 36'	37° 09'	-7 00	-6 50	(*1.71-0.8)		6.5	8.8	5.2
				on Argentina, p.4						
59	Finnsbu	63° 24'	41° 17'	-4 09	-3 42	+0.8	-0.4	6.1	8.1	4.6
61	Kap Farvel	59° 45'	43° 53'	-2 21	-1 53	+0.2	-0.9	6.0	8.0	4.0
	West Coast									
63	Frederiksdal	60° 00'	44° 40'	-2 10	-1 41	+1.5	-0.7	7.1	9.5	4.7
65	Nanortalik	60° 07'	45° 15'	-2 43	-2 16	+0.5	-0.9	6.3	8.4	4.2
67	Julianehaab	60° 43'	46° 01'	-2 09	-1 46	+0.3	-0.9	6.1	8.0	4.0
69	Narsarsuaq	61° 08'	45° 25'	-2 15	-1 46	+1.8	+0.1	6.6	8.6	5.3
71	Ivigut, Arsuk Fjord	61° 12'	48° 11'	-1 49	-1 24	+0.7	-0.9	6.5	8.6	4.3
73	Frederikshaab	62° 00'	49° 43'	-1 22	-1 00	+3.0	-0.6	8.5	11.1	5.6
75	Godthaab	64° 10'	51° 44'	-1 21	-0 46	(*2.00-2.1)		9.8	13.0	6.5
77	Fishmaster's Harbour, Sondre Stromfjord	66° 01'	53° 29'	-1 41	-1 16	+3.6	-0.1	8.6	10.2	6.1
79	Camp Lloyd, Sondre Stromfjord	66° 58'	50° 57'	+2 21	+2 51	+1.7	-1.1	7.7	9.4	4.7
81	Holsteinsborg	66° 56'	53° 42'	-1 29	-1 00	+2.0	-0.8	7.7	10.0	5.0
83	Camp Michigan, Maligiak Fjord	66° 56'	52° 37'	-0 22	+0 10	+2.2	-0.8	7.9	10.2	5.1
				on Harrington Harbour, p.12						
85	Aninga, Rifkol	67° 55'	53° 50'	-1 42	-1 42	+1.0	-0.8	5.6	7.4	3.6
87	Nunarssuaq, Kronprinsens Ejländen	68° 59'	53° 21'	-0 48	-0 52	-0.5	-0.9	4.2	5.7	2.8
89	Godhavn, Disko Island	69° 15'	53° 33'	-1 37	-1 32	-0.4	-0.9	4.3	5.7	2.9
91	Ingnerit, Umanak Fjord	71° 00'	51° 00'	+0 00	+0 00	-1.6	-1.1	3.3	4.3	2.2
	Time meridian, local									
93	North Star Bay, Wolstenholme Fjord	76° 32'	68° 50'	+0 30	+0 32	*1.33	*1.12	5.4	7.0	4.5
95	Port Foulke	78° 18'	72° 45'	+0 28	+0 26	(*2.08-0.8)		7.9	10.7	6.5
97	Rensselaer Bugt	78° 37'	70° 53'	+1 05	+0 58	(*2.08-1.1)		7.9	10.8	6.2
99	Thank God Harbor, Polaris Bugt	81° 36'	61° 40'	+1 34	+1 31	-0.3	-0.4	3.9	5.4	3.2

Endnotes can be found at the end of table 2.

TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Spring	
				High Water	Low Water	High Water	Low Water			
	NORTHERN CANADA Baffin Bay, etc., West Side Time meridian, local	North	West	h	m	h	m	ft	ft	ft
				on Halifax, p.20						
101	Fort Conger, Discovery Harbor	81° 44'	64° 44'	+3 48	+3 25	-1.4	-1.3	4.3	5.9	3.0
103	Cape Lawrence	80° 21'	69° 15'	+3 46	+3 40	-0.2	-1.3	5.5	7.2	3.6
105	Payer Harbour, Cape Sabine	78° 43'	74° 25'	+3 36	+3 30	+1.7	-0.9	7.0	9.4	4.7
107	Cape Adair	71° 33'	71° 30'	+3 06	+3 06	+0.4	-1.2	6.0	7.8	3.9
109	Cape Hewett	70° 16'	67° 47'	+2 56	+2 56	+0.6	-0.5	5.5	7.2	4.4
	Davis Strait, West Side Time meridian, 60° W			on Pictou, p.8						
111	Cape Hooper, Baffin Island	68° 23'	66° 45'	-5 52	-5 41	*0.47	*0.43	1.6	1.9	1.8
113	Kivitoo, Baffin Island	67° 56'	64° 56'	-5 17	-5 10	*0.51	*0.43	1.8	2.4	1.9
				on Saint John, N. B., p.24						
115	Cape Dyer, Baffin Island	66° 34'	61° 40'	-6 19	-6 21	*0.31	*0.45	5.8	7.3	4.7
117	Clearwater Fiord, Cumberland Sound	66° 36'	67° 20'	-5 36	-5 38	-5.5	-0.6	15.9	20.6	11.4
119	Frobisher Bay	63° 29'	68° 02'	-4 13	-4 15	+5.5	+3.3	23.0	29.8	18.8
	Hudson Strait and Bay									
121	Pikyulik Island, Payne River	60° 00'	69° 55'	-2 15	-1 54	+3.7	+3.2	21.3	26.8	17.9
	Time meridian, 75° W									
123	Sorry Harbor, Resolution Island	61° 37'	64° 44'	-5 30	-5 30	-8.3	-0.9	13.4	17.6	9.8
125	Lower Savage Islands	61° 46'	65° 51'	-4 46	-4 55	-1.2	+2.0	17.6	25.4	14.8
127	Ashe Inlet, Big Island	62° 33'	70° 35'	-3 46	-3 43	+4.2	+2.2	22.8	30.9	17.6
129	Schooner Harbour, Baffin Island	64° 24'	77° 52'	-0 49	-0 44	-6.2	+0.4	14.2	18.9	11.5
131	Winter Island, Foxe Basin	66° 11'	83° 10'	+1 02	+1 10	-12.1	-0.8	9.5	12.4	8.0
	Time meridian, 90° W									
133	Coral Harbour, Southampton Island	64° 08'	83° 10'	-0 25	+0 04	-14.4	-1.5	7.9	10.3	6.5
135	Chesterfield Inlet	63° 20'	90° 42'	-8 17	-8 20	-12.4	-0.8	9.2	11.8	7.8
137	Churchill	58° 47'	94° 12'	-4 25	-4 36	-11.5	-1.4	10.7	13.4	7.9
				on Quebec, p.16						
139	Port Nelson, Nelson River entrance	57° 05'	92° 36'	+3 56	+4 35	-3.1	-0.9	11.5	12.9	6.4
	Time meridian, 75° W									
141	Moosonee, James Bay	51° 17'	80° 38'	+9 29	+9 32	*0.48	*1.81	4.5	5.4	5.2
143	Moose Factory, James Bay	51° 16'	80° 35'	+9 33	+10 37	*0.42	*1.56	4.0	5.4	4.5
145	Charlton Island, James Bay	51° 57'	79° 16'	+8 00	+6 38	*0.39	*1.06	4.3	5.3	3.9
				on Saint John, N. B., p.24						
147	Digges Harbour	62° 30'	77° 42'	-2 11	-2 05	*0.39	*0.62	7.1	9.3	6.1
149	Port de Boucherville, Nottingham Island	63° 12'	77° 28'	-2 07	-2 02	-11.6	-1.2	10.4	14.0	8.0
151	Wakeham Bay	61° 43'	71° 57'	-3 52	-3 55	-0.4	+2.2	18.2	27.0	15.3
153	Stupart Bay	61° 35'	71° 32'	-4 10	-4 17	0.0	+2.4	18.4	27.2	15.6
155	Diana Bay	60° 52'	70° 04'	-4 00	-4 03	+2.8	+3.1	20.5	26.8	17.4
157	Hopes Advance Bay, Ungava Bay	59° 21'	69° 38'	-3 59	-4 00	*1.44	*2.20	27.0	34.4	22.3
159	Leaf Bay, Ungava Bay	58° 55'	69° 00'	-4 00	-4 00	*1.49	*2.25	28.0	36.0	23.0
161	Leaf Lake, Ungava Bay	58° 45'	69° 40'	-3 00	-3 00	(*1.54+5.8)		32.0	40.0	28.0
163	Koksoak River entrance	58° 32'	68° 11'	-3 50	-3 53	*1.47	*2.00	28.5	36.4	22.3
165	Port Burwell, Ungava Bay	60° 25'	64° 52'	-4 13	-4 13	-6.5	-0.9	15.2	19.9	10.7
	LABRADOR Time meridian, 52° 30' W									
167	Button Islands	60° 37'	64° 44'	-2 38	-2 38	-9.5	-0.3	11.6	15.4	9.5
169	Williams Harbour	60° 00'	64° 19'	-3 07	-3 27	*0.32	*0.30	6.8	8.2	4.6
				on Halifax, p.20						
171	Eclipse Harbour	59° 48'	64° 09'	+0 25	+0 02	-2.4	-1.0	3.0	3.7	2.6
173	Kangalaksiorvik Fiord	59° 23'	63° 47'	+1 00	+0 42	-2.6	-1.5	3.3	4.1	2.2
175	Nachvak Bay	59° 03'	63° 35'	+0 04	-0 20	-1.5	-1.1	4.0	5.0	3.0
177	Port Manvers	56° 57'	61° 25'	-0 55	-0 55	-2.3	-1.2	3.3	4.2	2.6
179	Hebron, Hebron Fjord	58° 12'	62° 38'	-0 49	-1 05	-1.4	-0.9	3.9	4.7	3.2
181	Nain	56° 33'	61° 41'	-0 32	-0 54	+0.3	-0.5	5.2	6.5	4.2
183	Hopedale Harbour	55° 27'	60° 13'	-0 46	-1 09	-0.4	-0.3	4.3	5.6	4.0
185	Webeck Harbour	54° 54'	58° 02'	-1 07	-1 38	-1.3	-0.8	3.9	5.0	3.3
	<i>Hamilton Inlet and Lake Melville</i>									
187	Indian Harbour	54° 27'	57° 12'	-0 37	-1 33	-1.0	-0.9	4.3	5.7	3.4
189	Ticoralak Island	54° 17'	58° 12'	-0 35	-0 55	-0.9	-0.5	4.0	4.9	3.7
191	Rigolet	54° 11'	58° 25'	-0 02	-0 17	-1.9	-1.0	3.5	4.5	2.8
193	Goose Bay	53° 21'	60° 24'	+4 22	+4 24	(*0.27+0.4)		1.2	1.7	1.6
195	Cartwright Harbour	53° 42'	57° 02'	-0 03	-0 34	-1.3	-0.6	3.7	4.9	3.4
197	Curlew Harbour	53° 45'	56° 33'	-0 07	-0 38	-1.6	-0.9	3.7	4.9	3.1
199	Comfort Bight	53° 09'	55° 46'	-0 32	-1 03	-1.9	-1.0	3.5	4.6	2.9

Endnotes can be found at the end of table 2.

TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Spring	
				High Water	Low Water	High Water	Low Water			
	LABRADOR Time meridian, 52° 30' W	North	West	h m	h m	ft	ft	ft	ft	ft
				on Halifax, p.20						
201	Square Island Harbour	52° 44'	55° 49'	-0 34	-1 05	-2.0	-1.1	3.5	4.7	2.8
203	Port Marnham	52° 23'	55° 44'	-0 43	-1 14	-2.7	-1.0	2.7	3.6	2.5
205	Battle Harbour	52° 16'	55° 36'	-1 03	-1 30	-2.1	-0.3	2.6	3.8	3.1
	<i>Strait of Bell Isle</i>			on Harrington Harbour, p.12						
207	Chateau Bay	52° 00'	55° 50'	-3 08	-3 19	*0.69	*0.81	2.4	3.1	2.5
209	Red Bay	51° 43'	56° 25'	-2 00	-1 55	*0.56	*0.56	2.1	2.6	2.0
211	Forteau Bay	51° 27'	56° 53'	-0 26	-0 17	*0.78	*0.81	2.9	3.7	2.8
	NEWFOUNDLAND East Coast			on Halifax, p.20						
213	Pistolet Bay	51° 30'	55° 44'	-0 14	-0 28	*0.46	*0.29	2.4	3.1	1.8
215	Ariège Bay	51° 10'	56° 00'	-0 34	-0 34	-2.6	-1.5	3.3	4.3	2.3
217	Wild Cove	50° 42'	56° 10'	-0 49	-1 01	-2.0	-1.1	3.5	4.7	2.8
219	Sops Island, White Bay	49° 50'	56° 46'	-0 49	-1 24	*0.46	*0.29	2.4	3.4	1.8
221	Exploits Lower Harbour	49° 32'	55° 04'	-0 34	-1 09	-3.1	-1.3	2.6	3.5	2.1
223	Fogo Harbour	49° 43'	54° 16'	-0 34	-0 42	-2.6	-1.3	3.1	4.2	2.4
225	Valleyfield	49° 10'	53° 37'	-0 46	-1 13	*0.45	*0.33	2.2	2.9	1.8
227	Port Union	48° 30'	53° 05'	-0 53	-1 15	*0.49	*0.48	2.2	3.0	2.1
229	Random Head Harbour, Trinity Bay	48° 06'	53° 34'	-0 53	-1 05	*0.48	*0.33	2.4	3.2	1.9
231	Harbour Grace, Conception Bay	47° 41'	53° 12'	-0 28	-0 46	*0.51	*0.33	2.6	3.5	2.0
233	St. John's	47° 34'	52° 42'	-0 34	-0 46	*0.52	*0.38	2.6	3.5	2.1
	South Coast			on Argentia, p.4						
235	Trepassey Harbour	46° 43'	53° 23'	-0 19	-0 11	-1.2	-0.5	4.2	5.6	3.5
237	St. Mary Harbour, St. Mary Bay	46° 55'	53° 35'	-0 14	-0 06	-1.2	-0.5	4.2	5.6	3.5
	<i>Placentia Bay</i>			<i>Daily predictions</i>						
239	ARGENTIA	47° 18'	53° 59'	+0 09	+0 09	-0.5	-0.3	4.9	6.3	4.4
241	Woody Island	47° 47'	54° 10'	+0 15	+0 26	-1.0	-0.8	4.7	6.0	4.0
243	Mortier Bay	47° 10'	55° 09'	+0 15	+0 26	-1.0	-0.8	4.7	6.0	3.5
245	Great St. Lawrence Harbour	46° 55'	55° 22'	+0 28	+0 55	-0.7	+0.3	3.9	5.0	4.2
	Time meridian, 60° W									
247	St. Pierre Harbor, St. Pierre Island	46° 47'	56° 10'	-0 09	+0 13	-0.8	+0.2	3.9	5.0	4.1
	Time meridian, 52° 30' W									
	<i>Fortune Bay</i>									
249	Grande le Pierre Harbour	47° 40'	54° 47'	+1 09	+1 09	-1.0	+0.2	3.7	4.8	4.0
251	Belleoram	47° 32'	55° 25'	+0 57	+0 57	(*0.67+0.8)		3.3	4.3	3.8
253	Ship Cove, Bay d'Espoir	47° 52'	55° 50'	+0 45	+0 53	-0.4	0.0	4.5	5.5	4.2
255	Great Jervis Harbour, Bay d'Espoir	47° 39'	56° 11'	+0 38	+1 05	-1.1	+0.1	3.7	4.8	3.9
257	Hare Bay	47° 37'	56° 32'	+0 41	+1 08	(*0.67+0.6)		3.3	4.3	3.6
259	Grey River	47° 34'	57° 07'	+0 45	+1 12	(*0.63+0.7)		3.1	4.0	3.5
261	Connoire Bay	47° 40'	57° 54'	+0 50	+0 50	(*0.59+0.7)		2.9	3.8	3.3
263	La Poile Bay	47° 40'	58° 24'	+1 15	+1 15	(*0.63+0.6)		3.1	4.0	3.4
				on Harrington Harbour, p.12						
265	Port Aux Basques	47° 35'	59° 09'	-1 24	-1 28	*0.80	*0.75	3.1	4.0	2.8
267	Codroy Road	47° 53'	59° 24'	-1 22	-1 27	*0.74	*0.75	2.8	3.7	2.6
	West Coast									
269	St. Georges Harbour	48° 27'	58° 30'	-0 28	-0 38	*0.78	*0.88	2.8	3.5	2.8
271	Port-au-Port	48° 33'	58° 45'	+0 05	+0 10	-1.3	-1.0	3.5	4.5	2.4
273	Frenchman's Cove, Bay of Islands	49° 04'	58° 10'	+0 10	+0 10	-0.5	0.0	3.3	4.2	3.3
275	Norris Cove, Bonne Bay	49° 31'	57° 52'	+0 10	+0 10	-0.7	-0.4	3.5	4.4	3.0
277	Portland Cove	50° 11'	57° 36'	+0 19	+0 19	-0.6	-0.4	3.6	4.6	3.0
279	Port Saunders	50° 39'	57° 18'	+0 07	+0 03	-0.3	-0.3	3.8	4.9	3.2
281	Castors Harbour, St. John Bay	50° 55'	56° 59'	+0 10	+0 10	*0.78	*0.75	3.0	4.1	2.7
283	St. Barbe Bay	51° 12'	56° 46'	+0 00	+0 00	*0.78	*0.56	3.3	4.4	2.6
	QUEBEC Gulf of St. Lawrence Time meridian, 60° W									
285	Bradore Bay	51° 28'	57° 15'	-0 35	-0 30	-0.6	-0.1	3.3	4.4	3.1
287	Mistanoque Harbour	51° 16'	58° 12'	-0 15	-0 15	-0.4	-0.1	3.5	4.6	3.3
289	HARRINGTON HARBOUR	50° 30'	59° 28'	<i>Daily predictions</i>						
291	Wapitagan Harbour	50° 12'	60° 01'	+0 15	+0 15	-0.3	+0.1	3.4	4.4	3.4
293	Kegaska	50° 12'	61° 14'	+0 40	+0 40	-0.9	-0.2	3.1	4.0	3.0
295	Natashquan	50° 12'	61° 50'	+1 00	+1 10	-0.8	-0.1	3.1	4.0	3.1
297	Betchewun Harbour	50° 14'	63° 11'	+2 09	+2 13	-0.7	-0.4	3.5	4.6	3.0
299	Havre St. Pierre	50° 14'	63° 36'	+2 23	+2 32	0.0	-0.1	3.9	4.8	3.5
301	Mingan	50° 18'	64° 03'	+2 35	+2 40	+0.9	0.0	4.7	5.8	3.9

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TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Spring	
				High Water	Low Water	High Water	Low Water			
	QUEBEC Gulf of St. Lawrence-cont. Time meridian, 60° W	North	West	h	m	h	m	ft	ft	ft
				on Harrington Harbour, p.12						
	<i>Anticosti Island</i>									
303	Heath Point	49° 05'	61° 42'	+0 51	+0 52	(*0.61+0.3)		2.3	3.0	2.4
305	Southwest Point	49° 24'	63° 36'	+3 21	+3 26	-0.3	0.0	3.5	4.4	3.4
307	Ellis Bay	49° 48'	64° 22'	+3 37	+3 38	+0.3	-0.5	4.6	5.7	3.4
309	Moisie Bay	50° 12'	66° 05'	+3 43	+3 49	+2.3	+0.5	5.6	7.2	4.9
311	Sept Iles	50° 13'	66° 24'	+3 54	+3 58	+2.7	-0.1	6.6	8.6	4.8
313	Cawee Islands	49° 50'	67° 00'	+4 01	+4 07	+3.0	+0.6	6.2	8.0	5.3
	St. Lawrence River Time meridian, 75° W									
315	Ste. Anne des Monts	49° 08'	66° 29'	+3 17	+3 19	+3.4	+0.6	6.6	8.6	5.5
317	Cap Chat	49° 06'	66° 45'	+3 17	+3 21	+4.2	+1.0	7.0	9.0	6.1
319	Pointe des Monts	49° 20'	67° 22'	+3 10	+3 16	+4.3	+0.8	7.3	9.6	6.1
321	Matane	48° 51'	67° 32'	+3 18	+3 22	+4.7	+0.9	7.6	9.9	6.3
323	Metis-sur-Mer	48° 41'	68° 02'	+3 24	+3 28	+5.4	+1.1	8.1	10.6	6.8
				on Quebec, p.16						
325	Betsiamites River	48° 53'	68° 39'	-4 20	-5 08	-3.8	+1.4	8.5	11.2	7.3
327	Father Point	48° 31'	68° 28'	-4 22	-5 29	-3.4	+1.4	8.9	11.7	7.5
329	Old Bic Harbour	48° 22'	68° 44'	-4 12	-5 14	-3.3	+1.4	9.0	11.8	7.5
331	Tadoussac, Saguenay River	48° 08'	69° 43'	-3 47	-4 54	-1.8	+0.8	11.1	14.0	8.0
333	Chicoutimi, Saguenay River	48° 26'	71° 03'	-3 28	-3 40	-1.4	+1.3	11.0	14.4	8.4
335	Brandypt Islands	47° 52'	69° 41'	-3 36	-4 40	-0.5	+2.2	11.0	14.5	9.3
337	Murray Bay	47° 39'	70° 08'	-3 20	-4 22	+0.4	+2.3	11.8	15.3	9.8
339	Pointe aux Orignaux	47° 29'	70° 01'	-2 47	-3 41	-0.3	+2.2	11.2	14.7	9.4
341	Ile aux Coudres	47° 26'	70° 19'	-2 10	-3 21	+1.2	+2.0	12.9	15.8	10.1
343	L' Islet	47° 08'	70° 22'	-1 17	-2 05	0.0	+0.9	12.8	15.3	9.0
345	Beaujeu Channel	47° 05'	70° 29'	-1 10	-1 43	+0.6	+0.5	13.8	15.7	9.0
347	Grosse Ile	47° 02'	70° 40'	-0 57	-1 19	+1.3	0.0	15.0	17.1	9.1
349	Berthier	46° 56'	70° 44'	-0 47	-1 08	+1.3	0.0	15.0	16.9	9.1
351	St. Laurent d' Orleans	46° 52'	71° 00'	-0 20	-0 30	+0.3	+0.2	13.8	15.6	8.7
353	QUEBEC	46° 49'	71° 11'	<i>Daily predictions</i>				13.7	15.5	8.5
355	St. Nicolas	46° 43'	71° 24'	+0 35	+0 32	-0.7	---	12.6	14.3	--
357	St. Augustin	46° 43'	71° 28'	+0 54	+0 53	-1.6	---	11.8	13.3	--
359	Ste. Croix <1>	46° 37'	71° 45'	+1 31	+2 00	---	---	11.8	13.3	--
361	Pointe Platon <1>	46° 40'	71° 51'	+1 43	+2 11	---	---	11.4	12.9	--
363	Grondines <1>	46° 36'	72° 04'	+2 14	+3 18	---	---	6.7	8.1	--
365	Cap a la Roche <1>	46° 33'	72° 10'	+2 37	+3 48	---	---	5.4	6.7	--
367	Batiscan <1>	46° 31'	72° 15'	+3 32	+4 49	---	---	2.3	3.3	--
369	Champlain <1>	46° 26'	72° 21'	+4 08	+5 30	---	---	1.8	2.8	--
371	Trois Rivieres <1>	46° 20'	72° 33'	+4 45	+6 15	---	---	0.7	1.0	--
	QUEBEC and NEW BRUNSWICK Gulf of St. Lawrence Time meridian, 60° W									
373	Gaspé Bay	48° 50'	64° 29'	+4 43	+4 58	-1.1	-0.5	2.6	3.3	3.1
375	Point St. Peter	48° 38'	64° 10'	+4 59	+5 11	*0.67	*0.52	2.5	3.2	2.5
	<i>Chaleur Bay</i>									
377	Port Daniel	48° 10'	64° 57'	+5 27	+5 42	-0.7	-0.6	3.1	3.8	3.3
379	Paspebiac	48° 01'	65° 14'	+5 22	+5 34	-0.4	-1.0	3.8	4.6	3.2
381	Carleton Point	48° 05'	66° 07'	+5 31	+5 36	+0.8	-0.7	4.7	6.2	4.0
383	Campbellton	48° 01'	66° 40'	+6 04	+6 40	+3.5	+0.9	5.8	7.2	6.1
385	Dalhousie	48° 04'	66° 22'	+5 42	+5 52	+2.2	-0.2	5.6	7.1	4.9
387	Bathurst	47° 37'	65° 39'	+6 04	+6 50	-0.3	-1.1	4.0	4.8	3.2
389	Caraquet Harbour	47° 48'	64° 56'	+5 49	+5 50	-1.0	-1.1	3.3	4.0	2.9
391	Miscou Harbour	47° 54'	64° 35'	+5 45	+5 57	-0.5	-1.1	3.8	5.0	3.1
393	Old Tracadie Gully entrance	47° 31'	64° 52'	+6 25	+6 36	-1.6	-1.2	2.8	3.5	2.5
395	Tracadie	47° 31'	64° 55'	+6 55	+7 06	*0.55	*0.35	2.2	2.8	1.9
				Mean Diurnal						
397	Portage Island, Miramichi Bay #	47° 09'	65° 03'	-5 11	-4 59	-1.7	-0.8	--	3.3	2.2
399	Newcastle, Miramichi River #	47° 00'	65° 34'	-3 53	-3 13	-0.7	-0.5	--	4.0	--
401	Richibucto River entrance #	46° 43'	64° 48'	-4 45	---	-2.7	-0.8	--	2.3	1.8
403	Shediac Bay #	46° 15'	64° 32'	---	+0 18	-1.9	-0.5	--	2.8	2.8
				Mean Spring						
405	Cape Tormentine	46° 08'	63° 47'	+0 41	+1 03	+1.5	-0.1	4.8	5.7	4.6
407	Tidnish Head, Baie Verte	46° 01'	64° 01'	+0 33	+0 54	+1.7	-0.2	5.1	6.3	4.7
	PRINCE EDWARD ISLAND							Mean Diurnal		
409	Tignish #	46° 58'	64° 00'	-4 59	-5 27	-2.5	-0.8	--	2.5	1.7
411	Alberton #	46° 49'	64° 03'	-4 27	-4 10	-2.8	-0.7	--	2.1	1.7
413	Malpeque Bay #	46° 35'	63° 40'	-3 29	-3 13	-2.5	-0.8	--	2.5	1.8
415	North Rustico #	46° 28'	63° 17'	-4 10	-4 04	-2.7	-1.0	--	2.5	1.6
417	St. Peters Bay #	46° 26'	62° 44'	-3 52	-3 37	-3.3	-1.0	--	1.9	1.5
419	Naufrage #	46° 28'	62° 25'	-3 09	-3 27	-2.6	-0.8	--	2.4	2.0

Endnotes can be found at the end of table 2.

TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Spring	
				High Water	Low Water	High Water	Low Water			
	PRINCE EDWARD ISLAND Time meridian, 60° W	North	West	h m	h m	ft	ft	ft	ft	ft
				on Pictou, p.8						
421	Souris Head	46° 20'	62° 17'	-1 23	-1 25	-0.6	-0.2	2.8	3.5	3.5
423	Georgetown Harbour	46° 11'	62° 32'	-1 03	-1 00	-0.5	-0.1	2.8	3.5	3.6
425	Cape Bear	46° 00'	62° 27'	-0 42	-0 40	-0.6	-0.5	3.1	4.0	3.4
427	Charlottetown	46° 13'	63° 08'	+0 33	+0 42	+2.5	+0.5	5.2	6.4	5.4
429	Summerside Harbour	46° 24'	63° 47'	+0 57	+1 19	+0.9	+0.3	3.8	4.5	4.5
	NOVA SCOTIA Gulf of St. Lawrence									
431	St. Paul Island	47° 12'	60° 09'	-1 25	-1 22	*0.64	*0.57	2.2	2.8	2.4
433	Amherst Harbour, Magdalen Islands	47° 14'	61° 50'	-1 05	-1 07	*0.53	*0.57	1.6	2.0	2.1
435	Pugwash	45° 51'	63° 40'	+1 00	+1 03	+1.8	0.0	5.0	6.0	4.8
437	PICTOU	45° 41'	62° 42'			<i>Daily predictions</i>		3.2	3.9	3.9
439	Merigomish Harbour	45° 39'	62° 27'	-0 13	-0 01	-0.3	0.0	2.9	3.4	3.8
441	Cape George	45° 53'	61° 53'	-0 54	-0 51	-1.6	-0.8	2.4	3.2	2.7
443	Antigonish Harbour	45° 40'	61° 53'	+0 09	+0 17	-1.7	-0.5	2.0	2.5	2.8
445	Cape Jack	45° 42'	61° 33'	-1 11	-1 18	-1.8	-0.7	2.1	2.6	2.7
447	Auld Cove	45° 39'	61° 26'	-0 27	-0 33	(*0.62+1.3)		2.0	2.6	3.7
	<i>Cape Breton Island</i>									
449	Port Hood	46° 01'	61° 32'	-0 46	-0 45	-1.6	-0.9	2.5	3.2	2.7
451	Mabou River entrance	46° 06'	61° 28'	-0 53	-1 04	*0.66	*0.61	2.2	2.9	2.5
453	Cheticamp	46° 37'	61° 02'	-1 23	-1 20	*0.56	*0.74	1.4	1.8	2.4
	Outer Coast									
	<i>Cape Breton Island-cont.</i>									
455	Neil Harbour	46° 48'	60° 20'	-1 44	-1 45	*0.69	*0.65	2.4	3.1	2.7
457	Ingonish Island	46° 40'	60° 23'	-1 40	-1 33	-1.5	-0.9	2.6	3.2	2.7
459	St. Anns Harbour	46° 15'	60° 34'	-1 37	-1 40	-1.4	-1.0	2.8	3.5	2.7
461	North Sydney	46° 13'	60° 15'	-1 54	-1 49	*0.73	*0.61	2.6	3.2	2.7
463	Glace Bay	46° 12'	59° 55'	-1 59	-1 54	-1.6	-0.9	2.5	3.2	2.7
				on Halifax, p.20						
465	Louisburg Harbour	45° 54'	59° 59'	-0 08	-0 14	-1.6	-0.7	3.5	4.2	3.2
467	Gabarus Cove	45° 51'	60° 10'	+0 08	+0 10	-1.4	-0.7	3.7	4.4	3.3
469	St. Peter Bay	45° 38'	60° 52'	-0 12	-0 07	-0.6	-0.4	4.2	5.1	3.8
471	Arichat	45° 31'	61° 02'	-0 25	-0 14	-0.9	-0.5	4.0	4.8	3.6
473	Port Hastings, Strait of Canso	45° 39'	61° 24'	-0 16	-0 12	0.0	+0.2	4.2	5.1	4.4
475	Guysborough	45° 23'	61° 29'	+0 06	+0 18	-1.1	-0.5	3.8	4.6	3.5
477	Canso Harbour	45° 21'	61° 00'	-0 05	-0 04	-1.1	-0.6	3.9	4.7	3.5
479	Whitehaven Harbour	45° 14'	61° 12'	-0 10	-0 02	-1.1	-0.4	3.7	4.7	3.6
481	Isaacs Harbour	45° 11'	61° 40'	-0 03	+0 04	-0.6	-0.1	3.9	4.6	4.0
483	Sonora, St. Mary River	45° 03'	61° 55'	-0 02	+0 09	-0.7	-0.6	4.3	5.2	3.7
485	Liscomb Harbour	45° 00'	62° 02'	-0 11	-0 05	-0.6	-0.4	4.2	5.0	3.8
487	Sheet Harbour	44° 54'	62° 30'	-0 08	-0 04	-1.1	-0.9	4.2	5.0	3.3
489	Ship Harbour	44° 47'	62° 49'	-0 07	-0 04	-0.6	-0.4	4.2	5.1	3.8
491	Jeddore Harbour	44° 45'	63° 01'	-0 06	-0 03	-0.5	-0.4	4.3	5.2	3.9
493	HALIFAX	44° 40'	63° 34'			<i>Daily predictions</i>		4.4	5.3	4.3
495	Sable Island, north side	43° 57'	60° 06'	-0 06	-0 12	-2.7	-0.9	2.6	3.2	2.5
497	Sable Island, south side	43° 56'	59° 54'	-0 02	-0 06	-2.1	-1.6	3.9	4.8	2.5
499	St. Margarets Bay	44° 31'	63° 56'	+0 08	+0 07	-0.5	-0.3	4.2	4.9	3.9
501	Chester, Mahone Bay	44° 34'	64° 18'	+0 01	-0 04	-0.2	-0.2	4.4	5.3	4.1
503	Mahone Harbour, Mahone Bay	44° 27'	64° 22'	+0 03	-0 01	-0.1	-0.2	4.5	5.5	4.2
505	Lunenburg	44° 22'	64° 19'	+0 07	+0 07	-0.1	+0.1	4.2	4.9	4.3
507	Riverport, La Have River	44° 17'	64° 20'	+0 12	+0 05	-0.3	-0.4	4.5	5.3	4.0
509	Bridgewater, La Have River	44° 23'	64° 31'	+0 09	+0 06	-0.2	-0.3	4.5	5.5	4.1
511	Liverpool Bay	44° 02'	64° 41'	+0 14	+0 04	-0.5	-0.4	4.3	5.1	3.9
513	Lockeport	43° 44'	65° 05'	+0 27	+0 02	-0.2	-0.4	4.6	5.4	4.0
515	Shelburne	43° 45'	65° 18'	+0 30	+0 35	+0.1	-0.3	4.8	5.8	4.2
517	Barrington Passage	43° 32'	65° 36'	+0 51	+0 30	+1.6	+0.6	5.4	6.2	5.4
519	Swim Point	43° 26'	65° 38'	+1 41	+1 03	+2.9	+0.1	7.2	8.4	5.8
	NOVA SCOTIA and NEW BRUNSWICK Bay of Fundy									
				on Saint John, N. B., p.24						
521	Lower East Pubnico	43° 38'	65° 46'	-1 52	-2 07	*0.43	*0.48	8.7	10.0	6.3
523	Yarmouth Harbour	43° 48'	66° 08'	-1 07	-1 15	*0.53	*0.42	11.5	13.4	7.5
525	Westport, St. Mary Bay	44° 16'	66° 21'	-0 35	-0 30	*0.72	*0.72	15.0	16.7	10.4
527	Tiverton, St. Mary Bay	44° 24'	66° 13'	-0 38	-0 30	-5.6	-0.7	15.9	18.3	11.3
529	Weymouth, St. Mary Bay	44° 27'	66° 01'	-0 26	-0 22	-6.5	-0.7	15.0	17.0	10.8
531	Digby, Annapolis Basin	44° 38'	65° 45'	-0 09	-0 07	+0.7	+0.3	21.2	24.6	14.9
533	Annapolis Royal, Annapolis River	44° 45'	65° 30'	+0 06	+0 10	+2.2	+0.4	22.6	25.7	15.7
535	Port George	45° 01'	65° 10'	-0 06	-0 06	+6.7	+0.8	26.7	30.5	18.2
537	Ile Haute	45° 15'	65° 00'	-0 02	-0 02	+7.4	+0.7	27.5	31.5	18.5
539	Spencer Island	45° 20'	64° 42'	+0 17	+0 21	*1.47	*1.50	30.5	35.0	21.2
	<i>Minas Basin</i>									
541	Parrsboro (Partridge Island) <2>	45° 22'	64° 20'	+0 51	+0 49	+14.7	---	34.4	39.0	22.3
543	Horton Bluff, Avon River	45° 06'	64° 13'	+0 58	+1 02	*1.76	*1.38	38.1	43.6	24.6
545	Windsor <2>	45° 00'	64° 08'	+1 03	---	+19.5	---	---	---	---
547	Burntcoat Head	45° 18'	63° 49'	+1 06	+1 12	*1.90	*2.18	38.4	43.5	27.9
549	Truro <2>	45° 22'	63° 20'	+1 43	---	+26.1	---	---	---	---
551	Spicer Cove, Chignecto Bay	45° 26'	64° 54'	+0 12	+0 16	+7.0	+0.8	27.0	30.0	18.3
553	Joggins <2>	45° 41'	64° 28'	+0 14	+0 26	+14.2	+1.8	33.2	37.0	22.4
555	Amherst Point, Cumberland Basin	45° 50'	64° 17'	+0 33	+0 45	*1.69	*1.55	35.6	40.5	24.0

Endnotes can be found at the end of table 2.

TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Spring	
				High Water	Low Water	High Water	Low Water			
	NOVA SCOTIA and NEW BRUNSWICK Bay of Fundy-cont. Time meridian, 60° W	North	West	h	m	h	m	ft	ft	ft
				on Saint John, N. B., p.24						
	<i>Petitcodiac River <3></i>									
557	Grindstone Island	45° 43'	64° 37'	+0 21	+0 28	*1.49	*1.45	31.1	35.6	21.4
559	Hopewell Cape	45° 52'	64° 35'	+0 14	+0 39	*1.64	*1.85	33.2	38.0	24.0
561	Moncton <2> <3>	46° 05'	64° 46'	+0 46	---	+17.2	---	---	---	---
563	Salisbury	46° 01'	65° 03'	+1 31	---	+18.2	---	---	---	---
565	Herring Cove	45° 35'	64° 58'	+0 22	+0 20	+8.4	+0.9	28.3	32.4	19.1
567	Quaco Bay	45° 20'	65° 32'	+0 11	+0 12	+2.0	-0.3	23.1	26.3	15.3
569	SAINT JOHN <4>	45° 15'	66° 04'	<i>Daily predictions</i>				20.8	23.7	14.4
571	Indiantown, St. John River	45° 16'	66° 05'	+1 30	+2 25	---	---	1.2	1.4	2.4
573	Lepreau Harbour	45° 07'	66° 29'	-0 01	+0 03	-2.3	-0.5	19.0	21.7	13.0
575	L' Etang Harbour	45° 02'	66° 49'	+0 01	+0 05	-3.2	-0.8	18.4	21.0	12.4
577	North Head, Grand Manan Island	44° 46'	66° 45'	-0 05	-0 05	-4.5	-0.9	17.2	19.3	11.7
579	Seal Cove, Grand Manan Island	44° 37'	66° 51'	-0 15	-0 17	*0.68	*0.65	14.3	16.3	9.8
581	Outer Wood Island <5>	44° 36'	66° 48'	-0 25	-0 27	-7.8	-0.8	13.8	16.2	10.1
583	Machias Seal Island <5>	44° 30'	67° 06'	-0 01	---	-9.6	-1.7	12.9	14.5	8.8
585	Welshpool, Campobello Island <5>	44° 53'	66° 57'	-0 01	+0 06	-3.5	-1.0	18.3	21.2	12.1
587	Wilson's Beach, Campobello Island <5>	44° 56'	66° 56'	+0 00	+0 01	-3.7	+0.1	17.0	19.4	12.6
589	Back Bay, Letite Harbour <5>	45° 03'	66° 52'	+0 00	-0 03	-3.5	0.0	17.3	20.1	12.6
591	Midjick Bluff, Passamaquoddy Bay <5>	45° 07'	66° 54'	+0 12	+0 17	-2.0	-0.5	19.3	22.0	13.1
593	St. Andrews, Passamaquoddy Bay <5>	45° 04'	67° 03'	+0 14	+0 20	-2.3	0.0	18.5	21.2	13.2
	MAINE Time meridian, 75° W			on Eastport, p.28						
595	Pettegrove Point, Dochet Island	45° 07.7'	67° 08.6'	+0 08	+0 12	*1.07	*1.00	19.57	22.12	10.24
597	EASTPORT	44° 54.2'	66° 59.1'	<i>Daily predictions</i>				18.35	21.18	9.6
	<i>Cobscook Bay</i>									
599	Garnet Point, Pennamquan River	44° 55.4'	67° 07.8'	+0 11	+0 14	*1.04	*1.00	19.17	22.05	10.04
601	Coffins Point	44° 52.2'	67° 06.5'	+0 31	+0 33	*0.94	*0.77	17.3	19.7	9.0
603	Birch Islands, Whiting Bay	44° 52.5'	67° 09.5'	+0 59	+1 13	*0.94	*0.75	17.4	19.8	9.0
605	Gravelly Point, Whiting Bay	44° 49.4'	67° 09.1'	+1 07	+1 18	*0.97	*0.73	17.90	19.06	9.28
607	Cutler, Little River	44° 39.4'	67° 12.6'	-0 10	-0 19	*0.74	*0.74	13.5	15.4	7.1
609	Cutler, Naval Radio Station	44° 38.5'	67° 17.8'	-0 07	-0 14	*0.70	*0.84	12.78	14.67	6.76
611	Stone Island, Machias Bay	44° 36.2'	67° 22.1'	-0 11	-0 28	*0.68	*0.68	12.4	14.1	6.5
613	Machiasport, Machias River	44° 41.9'	67° 23.6'	+0 01	-0 09	*0.69	*0.69	12.6	14.4	6.6
615	Shoppee Point, Englishman Bay	44° 36.9'	67° 29.8'	-0 05	-0 13	*0.66	*0.66	12.1	13.8	6.2
				on Portland, p.36						
617	Steele Harbor Island	44° 29.6'	67° 32.6'	-0 28	-0 20	*1.27	*1.27	11.6	13.3	6.2
619	Millbridge, Narraguagus River, Maine	44° 32.4'	67° 52.5'	-0 15	+0 05	*1.23	*1.09	11.31	12.89	6.03
621	Green Island, Petit Manan Bar	44° 22.3'	67° 52.2'	-0 28	-0 24	*1.16	*1.16	10.6	12.2	5.7
623	Prospect Harbor	44° 24'	68° 01'	-0 24	-0 15	*1.15	*1.15	10.5	12.1	5.7
				on Bar Harbor, p.32						
625	Winter Harbor, Frenchman Bay	44° 23.3'	68° 05.2'	-0 01	+0 10	*0.95	*0.95	10.1	11.6	5.4
	<i>Mount Desert Island</i>									
627	BAR HARBOR	44° 23.5'	68° 12.3'	<i>Daily Predictions</i>				10.56	12.25	5.66
629	Southwest Harbor	44° 16.5'	68° 18.8'	+0 00	-0 27	*0.96	*0.95	10.2	11.7	5.5
631	Bass Harbor	44° 14.5'	68° 21.2'	+0 04	-0 27	*0.93	*0.93	9.9	11.3	5.4
	<i>Blue Hill Bay</i>									
633	Blue Hill Harbor	44° 24.5'	68° 33.8'	+0 09	+0 11	*0.95	*0.95	10.1	11.6	5.4
635	Mackerel Cove	44° 10.2'	68° 26.1'	+0 02	-0 27	*0.94	*0.93	10.0	11.5	5.4
637	Ellsworth, Union River	44° 32.1'	68° 25.3'	+0 15	+0 16	*1.00	*0.97	10.59	12.07	5.67
639	Burnt Coat Harbor, Swans Island	44° 08.7'	68° 27.0'	-0 01	+0 06	*0.89	*0.88	9.5	10.8	5.1
	Penobscot Bay									
	<i>Eggemoggin Reach</i>									
641	Center Harbor	44° 15.8'	68° 35.2'	+0 09	+0 12	*0.95	*0.95	10.1	11.5	5.4
643	Little Deer Isle	44° 17.5'	68° 41.6'	+0 16	+0 14	*0.94	*0.93	10.0	11.5	5.4
645	Isle Au Haut	44° 04.4'	68° 38.2'	-0 01	-0 27	*0.87	*0.88	9.3	10.7	5.0
647	Oceanville, Deer Isle	44° 11.5'	68° 37.2'	+0 08	+0 05	*0.93	*0.95	9.86	11.62	5.29
649	Stonington, Deer Isle	44° 09.2'	68° 39.7'	+0 08	+0 06	*0.91	*0.90	9.7	11.2	5.2
651	Matinicus Harbor, Wheaton Island	43° 51.7'	68° 52.9'	+0 05	-0 27	*0.85	*0.85	9.0	10.4	4.8
653	Vinalhaven, Vinalhaven Island	44° 02.6'	68° 50.4'	+0 09	+0 10	*0.87	*0.88	9.3	10.7	5.0
655	North Haven	44° 07.6'	68° 52.4'	+0 13	+0 10	*0.91	*0.90	9.7	11.2	5.3
657	Pulpit Harbor, North Haven Island	44° 09.4'	68° 53.2'	+0 12	+0 10	*0.93	*0.97	9.85	11.43	5.30
659	Castine	44° 23.2'	68° 47.8'	+0 15	+0 11	*0.95	*1.00	10.1	11.6	5.4
	<i>Penobscot River</i>									
661	Fort Point	44° 28.3'	68° 44.80'	+0 09	+0 06	*0.98	*0.95	10.39	11.67	5.55
663	Gross Point, Eastern Channel	44° 32.2'	68° 45.5'	-0 06	+0 10	*0.99	*0.98	10.4	12.0	5.6
665	Bucksport	44° 34.3'	68° 48.1'	-0 04	+0 11	*1.01	*1.00	10.8	12.4	5.8
667	Winterport	44° 38.2'	68° 50.5'	-0 09	+0 04	*1.11	*0.92	11.76	13.64	6.22
669	Sandy Point	44° 40.3'	68° 48.3'	+0 06	+0 08	*0.99	*0.98	10.5	12.1	5.6
671	Bangor	44° 47.7'	68° 46.3'	-0 06	+0 18	*1.25	*0.87	13.40	14.97	7.03
673	Belfast	44° 25.6'	69° 00.3'	+0 09	+0 04	*0.97	*1.03	10.23	11.66	5.51
675	Rockland	44° 06.3'	69° 06.1'	+0 09	+0 06	*0.93	*1.03	9.78	11.15	5.28

Endnotes can be found at the end of table 2.

TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Spring	
				High Water	Low Water	High Water	Low Water			
	MAINE Outer Coast Time meridian, 75° W	North	West	h	m	ft	ft	ft	ft	ft
				on Portland, p.36						
677	Tenants Harbor	43° 57.9'	69° 13.0'	-0 11	-0 11	*1.02	*1.02	9.3	10.6	5.0
679	Monhegan Island	43° 45.9'	69° 19.3'	-0 13	-0 09	*0.97	*0.97	8.8	10.1	4.7
681	Burnt Island, Georges Islands <i>St. George River</i>	43° 52.3'	69° 17.7'	-0 13	-0 12	*0.98	*0.98	8.9	10.2	4.8
683	Port Clyde	43° 55.5'	69° 15.6'	-0 11	-0 07	*0.98	*0.98	8.9	10.2	4.8
685	Otis Cove	43° 59.2'	69° 14.2'	-0 15	-0 14	*1.00	*1.00	9.1	10.5	4.9
687	Thomaston	44° 04.3'	69° 10.9'	-0 04	-0 03	*1.03	*1.03	9.4	10.8	5.0
689	New Harbor, Muscongus Bay	43° 52.5'	69° 29.4'	-0 10	-0 08	*0.97	*0.97	8.8	10.1	4.7
691	Muscongus Harbor, Muscongus Sound	43° 58.0'	69° 26.5'	-0 09	-0 03	*0.99	*0.99	9.0	10.4	4.8
693	Friendship Harbor <i>Medomak River</i>	43° 58.2'	69° 20.5'	-0 18	-0 11	*0.99	*0.99	9.0	10.4	4.8
695	Jones Neck	44° 00.9'	69° 22.8'	-0 10	-0 05	*1.00	*1.00	9.1	10.5	4.9
697	Waldoboro	44° 05.6'	69° 22.6'	-0 16	-0 04	*1.04	*1.04	9.5	10.9	5.1
699	Pemaquid Harbor, Johns Bay <i>Damariscotta River</i>	43° 52.6'	69° 31.5'	-0 05	-0 04	*0.97	*0.97	8.8	10.1	4.7
701	East Boothbay	43° 51.9'	69° 35.0'	-0 02	+0 01	*0.98	*0.98	8.9	10.2	4.8
703	Walpole	43° 56.0'	69° 34.8'	+0 06	+0 14	*1.03	*1.06	9.35	10.66	5.05
705	Newcastle	44° 02.0'	69° 32.2'	+0 16	+0 25	*1.02	*1.02	9.3	10.7	5.0
707	Damariscove Harbor, Damariscove Island	43° 45.5'	69° 36.9'	-0 09	-0 10	*0.97	*0.97	8.8	10.1	4.7
709	Boothbay Harbor	43° 51.1'	69° 37.7'	-0 06	-0 08	*0.97	*0.97	8.8	10.1	4.7
711	Southport, Townsend Gut <i>Sheepscot River</i>	43° 50.8'	69° 39.7'	+0 01	+0 01	*0.98	*0.98	8.9	10.2	4.8
713	Isle of Springs	43° 51.6'	69° 41.2'	-0 02	-0 04	*0.98	*0.98	8.9	10.3	4.8
715	Cross River entrance	43° 55.5'	69° 40.2'	+0 07	+0 04	*1.00	*1.00	9.1	10.5	4.9
717	Wiscasset	44° 00.0'	69° 40.0'	+0 16	+0 04	*1.03	*1.03	9.4	10.8	5.0
719	Sheepscot (below rapids)	44° 03.0'	69° 37.1'	+0 20	+0 20	*1.05	*1.05	9.6	11.0	5.2
721	Back River	43° 57.5'	69° 41.1'	+0 34	+0 31	*1.00	*1.00	9.1	10.5	4.9
723	Robinhood, Sasanoa River	43° 51.2'	69° 44.0'	+0 14	+0 14	*0.97	*0.97	8.8	10.1	4.7
725	Mill Point, Sasanoa River	43° 53.2'	69° 45.8'	+0 35	+0 43	*0.97	*0.97	8.8	10.1	4.7
	<i>Kennebec River</i>									
727	Fort Popham, Hunniwell Point	43° 45.3'	69° 47.3'	+0 09	+0 04	*0.92	*0.92	8.4	9.7	4.5
729	Phippsburg	43° 49.1'	69° 48.6'	+0 26	+0 28	*0.88	*0.88	8.0	9.2	4.3
731	Bath	43° 55.1'	69° 48.8'	+1 01	+1 17	*0.70	*0.70	6.4	7.4	3.4
733	Sturgeon Island, Merrymeeting Bay	43° 58.9'	69° 50.1'	+2 00	+2 04	*0.58	*0.58	5.3	6.1	2.8
735	Androscoggin River entrance	43° 57.0'	69° 53.3'	+2 24	+3 26	*0.52	*0.52	4.7	5.4	2.5
737	Brunswick, Androscoggin River	43° 55.3'	69° 57.8'	+2 35	+4 36	*0.42	*0.42	3.8	4.4	2.0
739	Bowdoinham, Cathance River	44° 00.5'	69° 53.7'	+2 34	+2 42	*0.63	*0.63	5.7	6.6	3.1
	Casco Bay									
741	Cundy Harbor, New Meadows River	43° 47.3'	69° 53.6'	-0 01	-0 02	*0.98	*0.98	8.9	10.2	4.8
743	Howard Point, New Meadows River	43° 53.4'	69° 53.0'	-0 05	+0 01	*0.99	*0.99	9.0	10.3	4.8
745	South Harpswell, Potts Harbor	43° 44.3'	70° 01.4'	+0 02	+0 01	*0.98	*0.98	8.9	10.2	4.8
747	Wilson Cove, Middle Bay	43° 49.5'	69° 58.6'	+0 02	+0 02	*1.00	*1.00	9.1	10.5	4.9
749	South Freeport	43° 49.2'	70° 06.2'	+0 12	+0 10	*0.99	*0.99	9.0	10.3	4.8
751	Prince Point	43° 45.7'	70° 10.4'	+0 00	+0 01	*1.00	*0.99	9.19	10.57	4.90
753	Doyle Point	43° 45.1'	70° 08.4'	-0 02	-0 03	*1.00	*0.88	9.2	10.5	4.9
755	Falmouth Foreside	43° 43.9'	70° 12.3'	+0 01	+0 01	*1.00	*0.97	9.16	10.53	4.91
757	Great Chebeague Island	43° 43.3'	70° 08.5'	+0 02	+0 02	*1.00	*1.03	9.11	10.48	4.91
759	Cliff Island, Luckse Sound	43° 41.7'	70° 06.6'	-0 02	-0 02	*1.00	*1.00	9.1	10.4	4.9
761	Vaill Island	43° 40.6'	70° 09.3'	+0 05	+0 01	*0.98	*1.03	9.0	10.3	4.8
763	Long Island	43° 41.4'	70° 10.2'	-0 01	-0 01	*1.00	*1.00	9.09	10.45	4.89
765	Cow Island	43° 41.4'	70° 11.4'	-0 01	+0 00	*1.00	*1.00	9.11	10.48	4.89
767	Presumpscot River Bridge	43° 41.4'	70° 14.8'	+0 01	+0 04	*1.01	*1.06	9.2	10.6	5.0
769	Back Cove	43° 41'	70° 15'	+0 02	+0 06	*0.97	*0.97	9.1	10.5	4.9
771	Great Diamond Island	43° 40.2'	70° 12.0'	+0 00	+0 00	*1.00	*1.03	9.08	10.44	4.89
773	Peak Island	43° 39.3'	70° 12.0'	-0 04	-0 08	*0.99	*0.99	9.0	10.4	4.8
775	Cushing Island	43° 38.7'	70° 11.9'	+0 01	+0 01	*0.99	*1.03	9.02	10.37	4.87
777	PORTLAND	43° 39.6'	70° 14.8'			<i>Daily predictions</i>		9.12	10.53	4.91
779	Fore River	43° 38.5'	70° 17.1'	+0 02	+0 02	*1.00	*1.03	9.16	10.53	4.93
781	Portland Head Light	43° 37.4'	70° 12.4'	-0 02	-0 01	*0.97	*1.00	8.89	10.13	4.78
	Outer Coast									
783	Pine Point, Scarborough River	43° 32.7'	70° 20.0'	+0 06	+0 16	*0.96	*0.97	8.77	9.72	4.71
785	Old Orchard Beach	43° 31'	70° 22'	+0 00	-0 06	*0.97	*0.97	8.8	10.1	4.7
787	Camp Ellis, Saco River Entrance	43° 27.7'	70° 22.9'	+0 03	+0 10	*0.97	*1.00	8.92	10.17	4.79
789	Biddeford, Saco River	43° 29.5'	70° 26.8'	+0 12	+0 26	*0.99	*0.97	9.06	10.33	4.86
791	Cape Porpoise	43° 22.0'	70° 25.9'	+0 12	+0 14	*0.95	*0.95	8.7	9.9	4.7
793	Kennebunkport	43° 21.5'	70° 28.6'	+0 07	+0 05	*0.97	*1.00	8.84	10.08	4.76
795	Wells, Webhannet River	43° 19.2'	70° 33.8'	+0 06	+0 02	*0.96	*1.00	8.77	10.09	4.72
797	Cape Neddick	43° 10.0'	70° 35.6'	+0 02	+0 08	*0.95	*1.00	8.69	9.99	4.68
799	York Harbor	43° 07.9'	70° 38.5'	+0 03	+0 13	*0.95	*0.95	8.6	9.9	4.6
801	Fort Point, York Harbor	43° 07.8'	70° 38.3'	-0 04	+0 10	*0.95	*0.94	8.69	9.99	4.66
803	Seapoint, Cutts Island	43° 05.1'	70° 39.7'	+0 01	-0 04	*0.96	*0.96	8.8	10.1	4.7

Endnotes can be found at the end of table 2.

TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Spring	
				High Water	Low Water	High Water	Low Water			
	MAINE and NEW HAMPSHIRE Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft
				on Portland, p.36						
805	Portsmouth Harbor Jaffrey Point	43° 03.4'	70° 43.9'	-0 03	-0 05	*0.95	*0.95	8.7	10.0	4.7
807	Gerrish Island	43° 04.0'	70° 41.7'	-0 02	-0 03	*0.95	*0.95	8.7	10.0	4.7
809	Fort Point	43° 04.3'	70° 42.7'	+0 09	+0 05	*0.95	*1.00	8.63	9.92	4.65
811	Kittery Point	43° 04.9'	70° 42.2'	-0 07	+0 01	*0.96	*0.96	8.7	10.0	4.7
813	Seavey Island	43° 05'	70° 45'	+0 20	+0 18	*0.89	*0.89	8.1	9.4	4.4
815	Portsmouth	43° 04.7'	70° 45.1'	+0 22	+0 17	*0.86	*0.86	7.8	9.0	4.2
	Piscataqua River									
817	Atlantic Heights	43° 05.4'	70° 46.0'	+0 37	+0 28	*0.82	*0.82	7.5	8.6	4.0
819	Dover Point	43° 07'	70° 50'	+1 33	+1 27	*0.70	*0.70	6.4	7.4	3.4
821	Dover, Cocheco River	43° 11.9'	70° 52.1'	+1 45	+1 39	*0.77	*0.76	7.04	8.03	3.78
823	Salmon Falls River	43° 11.4'	70° 49.5'	+1 35	+1 52	*0.75	*0.75	6.8	7.8	3.6
825	Squamscott River RR. Bridge	43° 03.2'	70° 54.8'	+2 19	+2 41	*0.75	*0.75	6.8	7.8	3.6
827	Gosport Harbor, Isles of Shoals	42° 58.7'	70° 36.9'	+0 02	-0 02	*0.93	*0.93	8.5	9.8	4.5
829	Hampton Harbor	42° 54'	70° 49'	+0 14	+0 32	*0.91	*0.91	8.3	9.5	4.5
	MASSACHUSETTS									
	Merrimack River									
831	Plum Island, Merrimack River Entrance	42° 49.0'	70° 49.2'	+0 06	+0 29	*0.88	*0.88	8.00	9.12	4.30
833	Newburyport	42° 48.7'	70° 51.9'	+0 31	+1 11	*0.86	*0.86	7.8	9.0	4.2
835	Salisbury Point	42° 50.3'	70° 54.5'	+0 55	+1 18	*0.83	*0.56	7.64	8.71	4.01
837	Merrimacport	42° 49.5'	70° 59.3'	+1 26	+2 08	*0.76	*0.50	7.05	8.04	3.70
839	Riverside	42° 45.8'	71° 04.6'	+1 56	+3 30	*0.62	*0.35	5.72	6.52	2.80
841	Plum Island Sound (south end)	42° 42.6'	70° 47.3'	+0 12	+0 37	*0.94	*0.94	8.6	9.9	4.6
843	Essex	42° 37.9'	70° 46.6'	+0 22	+0 31	*1.00	*0.94	9.18	10.47	4.90
845	Annisquam, Lobster Cove	42° 39.3'	70° 40.6'	+0 11	+0 03	*0.97	*0.97	8.81	10.04	4.74
847	Rockport	42° 39.5'	70° 36.9'	+0 06	+0 06	*0.95	*0.97	8.70	9.92	4.71
				on Boston, p.40						
849	Gloucester Harbor	42° 36.6'	70° 39.6'	+0 00	-0 04	*0.93	*0.97	8.80	10.03	4.73
851	Salem, Salem Harbor	42° 31.4'	70° 52.6'	-0 02	-0 05	*0.94	*0.97	8.93	10.18	4.79
853	Lynn, Lynn Harbor	42° 27.5'	70° 56.6'	+0 01	-0 03	*0.97	*1.00	9.16	10.44	4.92
	Boston Harbor									
855	Boston Light	42° 19.7'	70° 53.5'	-0 01	-0 02	*0.95	*0.97	9.05	10.03	4.85
857	Deer Island (south end)	42° 20.7'	70° 57.5'	+0 01	+0 00	*0.97	*0.97	9.3	10.8	4.9
859	BOSTON	42° 21.3'	71° 03.2'			<i>Daily predictions</i>		9.49	11.07	5.09
861	Charlestown, Charles River entrance	42° 22.5'	71° 03.0'	+0 00	+0 01	*1.00	*1.00	9.5	11.0	5.0
863	Amelia Earhart Dam, Mystic River	42° 23.7'	71° 04.6'	+0 01	+0 02	*1.01	*0.97	9.56	10.89	5.11
865	Chelsea St. Bridge, Chelsea River	42° 23.2'	71° 01.4'	+0 01	+0 06	*1.01	*1.01	9.6	11.1	5.1
867	Neponset, Neponset River	42° 17.1'	71° 02.4'	-0 02	+0 03	*1.00	*1.00	9.5	11.0	5.0
869	Moon Head	42° 18.5'	70° 59.3'	+0 01	+0 04	*0.99	*0.99	9.4	10.9	5.0
	Hingham Bay									
871	Nut Island, Quincy Bay	42° 16.8'	70° 57.3'	+0 01	+0 01	*0.99	*1.00	9.42	10.74	5.05
873	Weymouth Fore River Bridge	42° 14.7'	70° 58.1'	+0 09	+0 06	*1.00	*1.00	9.5	11.0	5.0
875	Crow Point, Hingham Harbor entrance	42° 15.7'	70° 53.6'	+0 02	+0 05	*0.99	*0.99	9.4	10.9	5.0
877	Hingham	42° 14.8'	70° 53.1'	+0 09	+0 08	*1.00	*1.00	9.5	11.0	5.0
879	Nantasket Beach, Weir River	42° 16.2'	70° 51.6'	+0 06	+0 07	*0.99	*0.99	9.4	10.9	5.0
881	Hull	42° 18.2'	70° 55.2'	+0 05	+0 07	*0.97	*0.97	9.3	10.8	5.0
	Cohasset Harbor to Davis Bank									
883	Cohasset Harbor (White Head)	42° 14.9'	70° 47.0'	+0 04	-0 02	*0.92	*0.92	8.8	10.2	4.7
885	Scituate, Scituate Harbor	42° 12.1'	70° 43.6'	+0 03	-0 01	*0.95	*1.03	8.94	10.19	4.83
887	Damons Point, North River	42° 09.6'	70° 44.0'	+0 20	+0 36	*0.89	*0.89	8.5	9.9	4.5
889	Brant Rock, Green Harbor River	42° 05.0'	70° 38.8'	+0 05	+0 03	*0.96	*1.03	9.08	10.35	4.89
	Cape Cod Bay									
891	Duxbury, Duxbury Harbor	42° 02.3'	70° 40.2'	+0 06	+0 33	*1.04	*1.03	9.89	11.27	5.30
893	Plymouth	41° 57.6'	70° 39.7'	+0 04	+0 18	*1.03	*1.00	9.76	11.13	5.22
895	Cape Cod Canal, east entrance	41° 46.3'	70° 30.4'	-0 01	-0 03	*0.91	*0.68	8.74	9.96	4.59
897	Cape Cod Canal, Sagamore (Sta. 115)	41° 46.5'	70° 32.1'	-0 15	-0 06	*0.83	*0.88	7.90	9.01	4.25
899	Cape Cod Canal, Bourmedale (Sta. 200)	41° 46.2'	70° 33.7'	-0 29	-0 21	*0.66	*0.79	6.18	7.05	3.37
901	Cape Cod Canal, Bourne Bridge (Sta. 320)	41° 44.7'	70° 35.6'	-1 13	-0 24	*0.46	*0.79	4.29	4.89	2.42
903	Barnstable Harbor, Beach Point	41° 43.3'	70° 17.1'	+0 11	+0 30	*1.00	*1.00	9.5	11.0	5.0
905	Sesuit Harbor, East Dennis	41° 45.1'	70° 09.3'	+0 02	-0 01	*1.02	*0.82	9.73	11.09	5.14
907	Wellfleet	41° 55.8'	70° 02.5'	+0 14	+0 30	*1.05	*1.05	10.0	11.6	5.4
909	Provincetown	42° 03'	70° 11'	+0 16	+0 18	*0.95	*0.95	9.1	10.6	4.8
	Cape Cod									
911	Chatham, Stage Harbor	41° 40.0'	69° 58.0'	+0 46	+0 19	*0.43	*0.43	3.95	4.50	2.23
913	Chatham Harbor, Aunt Lydias Cove	41° 41.6'	69° 57.0'	+0 56	+1 10	*0.61	*0.71	5.77	6.58	3.12
915	Pleasant Bay	41° 44.2'	69° 58.9'	+2 28	+3 27	*0.34	*0.34	3.2	3.7	1.7
917	Georges Shoal, Texas Tower	41° 41.3'	67° 45.6'	-0 47	-0 43	*0.44	*0.44	4.2	4.8	2.2
	Nantucket Sound, north side									
919	Saquetucket Harbor	41° 40.1'	70° 03.4'	+0 46	+0 16	*0.41	*0.41	3.72	4.24	2.14
921	Wychmere Harbor	41° 39.9'	70° 03.9'	+0 52	+0 25	*0.39	*0.39	3.7	4.3	1.9
923	Dennisport	41° 39.5'	70° 06.9'	+1 03	+0 38	*0.36	*0.36	3.4	4.1	1.8
925	South Yarmouth, Bass River	41° 39.9'	70° 11.0'	+1 48	+1 46	*0.29	*0.29	2.8	3.4	1.5
927	Hyannis Port	41° 37.9'	70° 18.0'	+1 00	+0 26	*0.35	*0.76	3.20	3.80	1.85

Endnotes can be found at the end of table 2.

TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level	
		Latitude	Longitude	Time		Height		Mean	Spring		
				High Water	Low Water	High Water	Low Water				
	MASSACHUSETTS Nantucket Sound, north side-cont. Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft	
				on Boston, p.40							
929	Cotuit Highlands	41° 36.5'	70° 26.2'	+1 17		+0 47		*0.26	*0.26	2.5 3.0	1.3
931	Poponneset Island, Poponneset Bay	41° 35.2'	70° 27.8'	+2 03		+1 52		*0.24	*0.24	2.3 2.8	1.2
933	Falmouth Heights	41° 32.7'	70° 35.9'	-0 16		-0 09		*0.14	*0.14	1.3 1.6	0.6
	Nantucket Island										
935	Great Point	41° 23.2'	70° 02.8'	+0 43		+0 28		*0.32	*0.32	3.1 3.7	1.6
937	NANTUCKET	41° 17.1'	70° 05.8'	<i>Daily predictions, p.44</i>							
939	Eel Point	41° 17.5'	70° 12.5'	+0 39		+0 07		*0.24	*0.24	2.3 2.7	1.2
941	Muskeget Island, north side	41° 20.2'	70° 18.3'	+0 25		+0 15		*0.21	*0.21	2.0 2.4	1.1
	Martha's Vineyard										
				on Newport, p.52							
943	Vineyard Haven	41° 27.5'	70° 36.0'	+3 39		+3 27		*0.48	*1.14	1.58 1.69	0.95
945	Oak Bluffs	41° 27.5'	70° 33.3'	+3 59		+3 47		*0.50	*0.71	1.7 2.0	0.9
947	Edgartown	41° 23.3'	70° 30.7'	+4 26		+4 16		*0.65	*1.64	2.13 2.68	1.29
949	Wasque Point, Chappaquiddick Island	41° 21.8'	70° 27.0'	+2 02		+3 20		*0.31	*0.31	1.1 1.4	0.6
951	Southshore (buoy)	41° 19.6'	70° 35.4'	-0 28		-0 03		*0.80	*0.86	2.78 3.38	1.51
953	Squibnocket Point	41° 18.7'	70° 46.1'	-0 45		-0 02		*0.82	*0.82	2.9 3.7	1.6
955	Nomans Land	41° 15.7'	70° 49.0'	-0 19		+0 18		*0.85	*0.85	3.0 3.6	1.6
957	Gay Head	41° 21.2'	70° 49.8'	-0 06		+0 45		*0.82	*0.82	2.9 3.5	1.5
959	Cedar Tree Neck	41° 26.1'	70° 41.8'	+0 10		+1 32		*0.62	*0.62	2.2 2.8	1.2
	Vineyard Sound										
	Woods Hole										
961	Little Harbor	41° 31.2'	70° 39.9'	+0 32		+2 21		*0.40	*0.40	1.4 1.8	0.8
963	OCEANOGRAPHIC INSTITUTION	41° 31.4'	70° 40.3'	<i>Daily predictions, p.48</i>							
965	Uncatena Island (south side)	41° 30.9'	70° 42.2'	+0 12		+0 22		*1.02	*1.02	3.6 4.5	1.9
967	Quicks Hole, North side	41° 26.9'	70° 51.4'	-0 08		-0 08		*0.99	*0.99	3.5 4.4	1.8
969	Cuttyhunk	41° 25.5'	70° 55.0'	+1 20		+1 15		*0.97	*0.93	3.37 4.25	1.81
	Buzzards Bay										
971	Penikese Island	41° 27.0'	70° 55.3'	+0 02		+0 12		*0.98	*0.96	3.42 4.30	1.84
973	Chappaquitt Point, West Falmouth Harbor	41° 36.3'	70° 39.1'	+0 06		+0 08		*1.11	*1.14	3.82 4.70	2.07
975	Monument Beach	41° 42.9'	70° 37.0'	+0 16		+0 30		*1.15	*1.15	3.97 5.00	2.17
977	Gray Gables	41° 44.1'	70° 37.4'	+0 37		+1 16		*1.05	*1.21	3.62 4.45	1.98
979	Cape Cod Canal, RR. bridge <6>	41° 44.5'	70° 37.0'	+1 17		+2 50		*1.01	*1.01	3.43 4.22	1.93
981	Onset Beach, Onset Bay	41° 44.5'	70° 39.5'	+0 41		+1 25		*1.03	*1.03	3.50 4.41	1.97
983	Great Hill	41° 42.7'	70° 42.9'	+0 12		+0 12		*1.14	*1.21	3.96 4.99	2.15
985	Marion, Sippican Harbor	41° 43.2'	70° 45.6'	+0 10		+0 12		*1.13	*1.29	4.0 4.9	2.2
987	Piney Point	41° 41.7'	70° 43.2'	+0 10		+0 10		*1.13	*1.21	3.91 4.81	2.13
989	Mattapoisett, Mattapoisett Harbor	41° 39'	70° 49'	+0 11		+0 20		*1.09	*1.00	3.9 4.8	2.1
991	Clarks Point	41° 35.6'	70° 54.0'	+0 14		+0 23		*1.03	*1.07	3.56 4.49	1.93
993	New Bedford	41° 38.4'	70° 55.1'	+0 07		+0 07		*1.05	*1.05	3.7 4.6	1.9
995	Round Hill Point	41° 32.3'	70° 55.7'	+0 14		+0 22		*0.99	*1.00	3.43 4.32	1.85
	Westport River										
997	Westport Harbor	41° 31'	71° 05'	+0 09		+0 33		*0.85	*0.85	3.0 3.7	1.6
999	Hix Bridge, East Branch	41° 34.2'	71° 04.4'	+1 40		+2 30		*0.77	*0.77	2.7 3.4	1.4
	RHODE ISLAND, and MASSACHUSETTS Narragansett Bay										
	Sakonnet River										
1001	Sakonnet	41° 27.9'	71° 11.6'	-0 09		+0 13		*0.91	*0.86	3.17 3.99	1.70
1003	Sachuest, Flint Point	41° 29.2'	71° 14.3'	-0 05		+0 15		*0.90	*0.93	3.13 3.94	1.69
1005	The Glen	41° 33.5'	71° 14.2'	-0 13		-0 03		*0.98	*1.00	3.40 4.28	1.84
1007	Nannaquaket Neck	41° 37.1'	71° 12.2'	-0 12		-0 13		*1.01	*1.01	3.50 4.41	1.91
1009	Anthony Point	41° 38.3'	71° 12.7'	+0 00		-0 01		*1.09	*1.09	3.75 4.73	2.05
1011	North End, Bay Oil pier	41° 39.1'	71° 12.6'	+0 20		+0 01		*1.20	*1.07	4.17 5.25	2.24
1013	Castle Hill	41° 27.8'	71° 21.7'	-0 05		+0 13		*0.94	*1.00	3.25 4.10	1.77
1015	NEWPORT	41° 30.3'	71° 19.6'	<i>Daily predictions</i>							
	Conanicut Island										
1017	Beavertail Point	41° 27.1'	71° 24.1'	-0 05		+0 04		*0.98	*0.98	3.34 4.21	1.86
1019	West Jamestown, Dutch Island Harbor	41° 29.8'	71° 23.2'	+0 05		+0 04		*1.00	*1.00	3.46 4.36	1.87
1021	Conanicut Point	41° 34.4'	71° 22.3'	+0 07		-0 06		*1.07	*1.07	3.8 4.7	2.0
1023	Prudence Island, (south end)	41° 34.8'	71° 19.3'	+0 08		-0 03		*1.08	*1.14	3.74 4.71	2.03
1025	Bristol Ferry	41° 38.2'	71° 15.3'	+0 15		+0 00		*1.17	*1.14	4.08 5.14	2.20
1027	Bristol, Bristol Harbor	41° 40.1'	71° 16.7'	+0 13		+0 00		*1.16	*1.14	4.1 5.1	2.2
1029	Bristol Highlands	41° 41.8'	71° 17.6'	+0 11		-0 04		*1.19	*1.21	4.13 5.03	2.23
1031	Kickamuit River	41° 42.5'	71° 14.5'	+0 22		+0 14		*1.24	*1.29	4.30 5.01	2.33
1033	Fall River, Massachusetts	41° 42.3'	71° 09.8'	+0 18		+0 03		*1.25	*1.21	4.36 5.41	2.35
1035	Steep Brook, Taunton River	41° 44.4'	71° 07.9'	+0 26		+0 05		*1.30	*1.29	4.51 5.68	2.44
1037	Conimicut Light	41° 43.0'	71° 20.6'	+0 11		-0 02		*1.20	*1.19	4.17 5.25	2.25
1039	Bay Spring, Bullock Cove	41° 45.1'	71° 21.1'	+0 12		+0 01		*1.22	*1.21	4.25 5.23	2.30
1041	Pawtuxet, Pawtuxet Cove	41° 45.7'	71° 23.3'	+0 06		-0 11		*1.25	*1.29	4.35 5.35	2.35
1043	Providence, State Pier no.1	41° 48.4'	71° 24.1'	+0 13		+0 00		*1.27	*1.29	4.41 5.63	2.40
1045	Rumford, Seekonk River	41° 50.4'	71° 22.4'	+0 12		+0 06		*1.34	*1.29	4.66 5.73	2.51
1047	Pawtucket, Seekonk River	41° 52.1'	71° 22.8'	+0 18		+0 09		*1.31	*1.29	4.6 5.8	2.5
1049	Quonset Point	41° 35.2'	71° 24.7'	+0 06		-0 01		*1.07	*1.10	3.70 4.66	2.01
1051	East Greenwich	41° 39.9'	71° 26.7'	+0 12		+0 03		*1.18	*1.21	4.06 4.93	2.20

Endnotes can be found at the end of table 2.

CAUTION

Cape Cod Canal, Railroad Bridge

Predictions of the times of low water must be used with caution because of the peculiarities in the behavior of the tide. Since the tide may be practically at a stand for as much as two hours before or after the predicted times of low water, the levels at other than high and low water times cannot be obtained in the usual way as in Table 3 (Height of Tide at Any Time). The peculiar behavior of the tide near low water, which is prevalent at this place, is illustrated by the first three curves; however there are brief periods each month when the behavior is as depicted by the fourth curve.

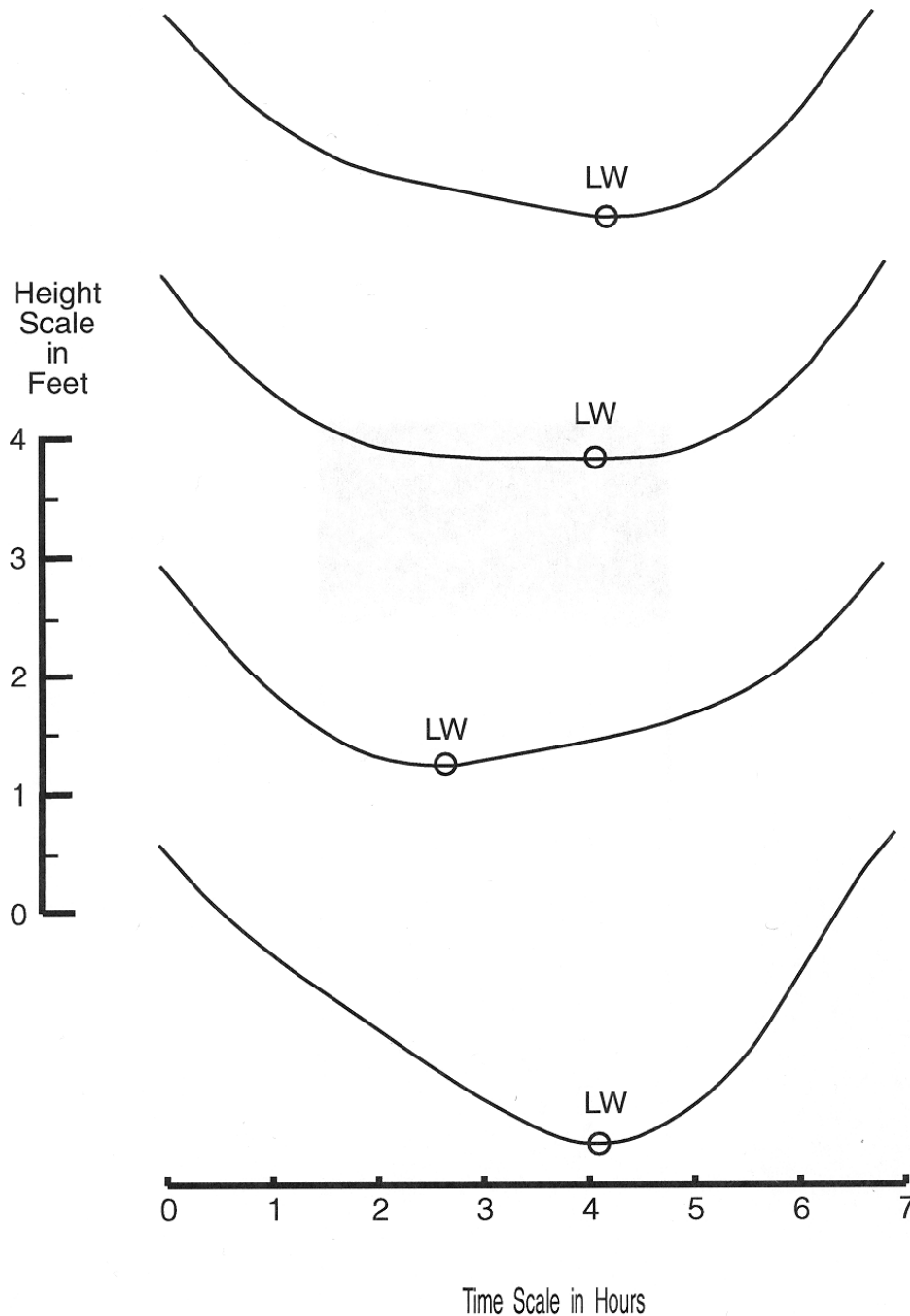


TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Spring	
				High Water	Low Water	High Water	Low Water			
	RHODE ISLAND, and MASSACHUSETTS Narragansett Bay-cont. Time meridian, 75° W	North	West	h	m	ft	ft	ft	ft	ft
				on Newport, p.52						
1053	Wickford	41° 34.3'	71° 26.7'	+0 03	-0 06	*1.07	*1.07	3.71	4.56	2.01
1055	Watson Pier, Boston Neck	41° 27.6'	71° 25.7'	-0 03	+0 16	*0.96	*0.93	3.32	4.18	1.79
1057	Narragansett Pier	41° 25.3'	71° 27.3'	-0 11	+0 11	*0.91	*0.93	3.2	4.0	1.7
	RHODE ISLAND, Outer Coast									
1059	Point Judith, Harbor of Refuge	41° 21.8'	71° 29.4'	+0 00	+0 33	*0.87	*0.93	3.00	3.13	1.63
1061	Block Island (Old Harbor)	41° 10.4'	71° 33.4'	-0 13	+0 15	*0.82	*0.86	2.85	3.51	1.54
1063	Southwest Point, Block Island	41° 09.8'	71° 36.6'	+0 05	+0 42	*0.75	*0.79	2.60	3.20	1.41
1065	Weekapaug Point, Block Island Sound	41° 19.7'	71° 45.7'	+0 41	+1 06	*0.74	*0.93	2.53	3.11	1.39
1067	Watch Hill Point	41° 18.3'	71° 51.6'	+0 41	+1 16	*0.74	*0.71	2.6	3.2	1.4
				on New London, p.60						
1069	Westerly, Pawcatuck River	41° 22.9'	71° 49.9'	-0 21	+0 03	*1.02	*1.00	2.6	3.1	1.5
	CONNECTICUT Long Island Sound									
1071	West Mystic, Mystic River	41° 20.6'	71° 58.5'	-0 20	-0 16	*0.97	*1.00	2.50	2.97	1.44
1073	Silver Eel Pond, Fishers Island, N.Y. <i>Thames River</i>	41° 15.4'	72° 01.8'	-0 04	-0 04	*0.91	*1.00	2.33	2.83	1.37
1075	NEW LONDON, State Pier	41° 21.6'	72° 05.5'			<i>Daily predictions</i>		2.56	3.09	1.47
1077	Yale boathouse	41° 25.8'	72° 05.6'	+0 14	+0 10	*1.07	*1.11	2.73	3.22	1.57
1079	Norwich	41° 31.4'	72° 04.7'	+0 24	+0 19	*1.18	*1.21	3.03	3.57	1.75
1081	Niantic, Niantic River <i>Connecticut River</i>	41° 19.5'	72° 11.2'	+0 52	+0 57	*0.99	*0.84	2.58	3.04	1.44
1083	Saybrook Jetty	41° 15.8'	72° 20.6'	+1 11	+0 45	*1.36	*1.35	3.5	4.2	2.0
1085	Saybrook Point	41° 17.0'	72° 21.0'	+1 11	+0 53	*1.24	*1.25	3.2	3.8	1.8
1087	Lyme, highway bridge	41° 19.3'	72° 21.0'	+1 36	+1 09	*1.26	*0.95	3.31	3.91	1.83
1089	Essex <7>	41° 20.9'	72° 23.1'	+1 39	+1 38	*1.16	*1.15	3.0	3.6	1.7
1091	Hadlyme <7>	41° 25.2'	72° 25.7'	+2 19	+2 23	*1.05	*1.05	2.7	3.2	1.5
1093	Tylerville <7>	41° 27.1'	72° 27.9'	+2 38	+2 51	*1.02	*1.02	2.71	3.20	1.46
1095	Haddam <7>	41° 28.9'	72° 30.4'	+2 48	+3 08	*0.97	*0.95	2.5	3.0	1.4
1097	Higganum Creek <7>	41° 30.2'	72° 33.2'	+3 08	+3 40	*0.91	*0.91	2.40	2.83	1.30
1099	Maromas <7>	41° 32.5'	72° 33.1'	+3 25	+4 01	*0.91	*0.91	2.41	2.84	1.31
1101	Middletown <7>	41° 33.6'	72° 38.7'	+3 54	+4 39	*0.83	*0.83	2.17	2.56	1.19
1103	Rocky Hill <7>	41° 39.8'	72° 37.8'	+4 30	+5 36	*0.72	*0.63	1.88	2.22	1.07
1105	South Hartford <7>	41° 45.3'	72° 39.5'	+5 24	+6 54	*0.74	*0.58	1.94	2.29	1.07
				on Bridgeport, p.64						
1107	Westbrook, Duck Island Roads	41° 16.4'	72° 28.5'	-0 24	-0 32	*0.61	*0.60	4.1	4.7	2.2
1109	Clinton, Clinton Harbor	41° 16.1'	72° 31.9'	-0 11	-0 16	*0.67	*1.00	4.55	5.27	2.51
1111	Madison	41° 16.2'	72° 36.2'	-0 21	-0 30	*0.73	*0.72	4.9	5.6	2.6
1113	Guilford Harbor	41° 16.3'	72° 40.0'	-0 11	-0 21	*0.77	*0.96	5.19	5.92	2.83
1115	Sachem Head	41° 14.7'	72° 42.5'	-0 11	-0 15	*0.80	*0.80	5.4	6.2	2.9
1117	Branford, Branford River	41° 15.7'	72° 49.1'	-0 05	-0 13	*0.87	*0.96	5.85	6.67	3.15
1119	Lighthouse Point, New Haven Harbor	41° 15.1'	72° 54.3'	-0 04	-0 07	*0.91	*0.96	6.12	6.98	3.29
1121	New Haven Harbor, New Haven Reach	41° 17.0'	72° 54.5'	-0 01	-0 06	*0.92	*1.00	6.15	7.11	3.32
1123	Gulf Beach	41° 12.3'	73° 02.5'	-0 05	-0 08	*0.94	*1.04	6.29	7.17	3.40
1125	Milford Harbor <i>Housatonic River</i>	41° 13.1'	73° 03.3'	-0 02	-0 03	*0.94	*1.04	6.32	7.20	3.41
1127	Sniffens Point	41° 11.2'	73° 06.8'	+0 10	+0 09	*0.96	*1.00	6.43	7.33	3.46
1129	Stratford, I-95 bridge	41° 12.2'	73° 06.7'	+0 23	+0 23	*0.98	*1.00	6.58	7.50	3.53
1131	Long Hill	41° 16.5'	73° 05.3'	+0 43	+1 13	*1.02	*1.04	6.85	7.81	3.67
1133	Shelton	41° 18.1'	73° 04.3'	+0 46	+1 19	*1.04	*0.96	7.01	7.99	3.74
1135	BRIDGEPORT	41° 10.4'	73° 10.9'			<i>Daily predictions</i>		6.74	7.80	3.61
1137	Black Rock Harbor	41° 09.4'	73° 12.8'	+0 00	+0 01	*1.00	*1.04	6.75	7.75	3.63
1139	Southport, Southport Harbor	41° 08.0'	73° 17.0'	-0 02	+0 02	*1.01	*1.00	6.84	8.18	3.66
1141	Saugatuck, Saugatuck River	41° 07.2'	73° 22.1'	+0 01	+0 09	*1.04	*1.00	6.99	8.14	3.74
1143	South Norwalk	41° 05.9'	73° 24.9'	+0 09	+0 15	*1.05	*1.04	7.1	8.2	3.8
1145	Rowayton, Fivemile River	41° 03.9'	73° 26.7'	+0 00	+0 05	*1.05	*1.08	7.09	8.08	3.80
1147	Long Neck Point	41° 02.3'	73° 28.8'	-0 09	+0 01	*1.06	*0.96	7.17	8.17	3.82
1149	Stamford	41° 02.3'	73° 32.8'	+0 03	+0 08	*1.07	*1.08	7.2	8.3	3.9
1151	Cos Cob Harbor	41° 01.0'	73° 35.8'	+0 05	+0 11	*1.07	*1.08	7.2	8.3	3.9
	NEW YORK Long Island Sound, north side			on Kings Point, p.68						
1153	Rye Beach	40° 57.7'	73° 40.3'	-0 20	-0 27	*1.00	*0.86	7.29	7.89	3.88
1155	New Rochelle	40° 53.6'	73° 46.9'	-0 16	-0 18	*1.01	*0.93	7.29	8.46	3.90
1157	Throgs Neck, Fort Schuyler	40° 48.3'	73° 47.7'	+0 01	+0 04	*1.00	*1.00	7.13	8.62	3.84
	East River									
1159	Whitestone	40° 47.9'	73° 48.8'	+0 07	+0 09	*1.00	*1.04	7.1	8.3	3.8
1161	College Point, Flushing Bay	40° 47.0'	73° 51.4'	+0 17	+0 16	*0.95	*1.04	6.8	7.9	3.7
1163	Worlds Fair Marina, Flushing Bay	40° 45.7'	73° 51.0'	+0 10	+0 16	*0.94	*1.00	6.75	8.10	3.65
1165	Hunts Point	40° 48.0'	73° 52.4'	+0 12	+0 10	*0.97	*1.07	6.92	7.57	3.75
1167	North Brother Island	40° 48.1'	73° 54.0'	+0 18	+0 18	*0.93	*1.11	6.6	7.8	3.6
1169	Port Morris (Stony Point)	40° 48.1'	73° 54.4'	+0 07	+0 10	*0.87	*0.96	6.24	6.85	3.39

Endnotes can be found at the end of table 2.

TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Spring	
				High Water	Low Water	High Water	Low Water			
	NEW YORK East River-cont. Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft
				on New York, p.72						
1171	Hell Gate, Wards Island	40° 47.2'	73° 55.3'	+2 58	+3 45	*1.33	*1.59	6.0	7.3	3.4
1173	Horns Hook, East 90th Street	40° 46.6'	73° 56.5'	+1 54	+1 34	*1.03	*0.90	4.68	5.18	2.53
1175	Queensboro Bridge	40° 45.5'	73° 57.5'	+1 23	+0 57	*0.96	*1.00	4.33	5.24	2.38
1177	East 41st Street, New York City	40° 44.8'	73° 58.1'	+1 03	+0 46	*0.95	*1.09	4.31	4.89	2.40
1179	Hunters Point, Newtown Creek	40° 44.4'	73° 57.7'	+1 22	+0 56	*0.89	*0.90	4.1	4.9	2.2
1181	Williamsburg Bridge	40° 42.7'	73° 58.1'	+0 45	+0 28	*0.93	*0.95	4.22	5.11	2.31
1183	Wallabout Bay, Brooklyn Navy Yard	40° 42.4'	73° 58.5'	+0 32	+0 22	*0.94	*1.05	4.3	5.2	2.4
1185	Brooklyn Bridge	40° 42.2'	73° 59.3'	+0 24	-0 04	*0.99	*1.00	4.53	5.13	2.48
1187	Harlem River, Randalls Island	40° 48.0'	73° 55.6'	+1 55	+1 30	*1.00	*0.86	4.56	5.31	2.46
	Long Island, Long Island Sound			on Kings Point, p.68						
1189	Willetts Point	40° 47.6'	73° 46.9'	-0 01	+0 00	*1.00	*1.04	7.15	8.21	3.88
1191	KINGS POINT	40° 48.6'	73° 45.9'			<i>Daily predictions</i>		7.16	8.46	3.86
1193	Port Washington, Manhasset Bay	40° 49.9'	73° 42.2'	-0 12	-0 12	*1.02	*0.96	7.29	8.46	3.92
1195	Glen Cove, Hempstead Harbor	40° 51.8'	73° 39.3'	-0 22	-0 26	*1.01	*0.82	7.27	7.87	3.87
1197	Harry Tappen Marina, Hempstead Harbor	40° 50.1'	73° 39.1'	-0 20	-0 23	*1.01	*0.82	7.29	8.87	3.88
	Oyster Bay			on Bridgeport, p.64						
1199	Oyster Bay Harbor	40° 53'	73° 32'	+0 07	+0 13	*1.08	*1.08	7.3	8.4	3.9
1201	Bayville Bridge	40° 54.2'	73° 33.0'	-0 06	+0 04	*1.09	*1.04	7.37	7.99	3.94
1203	Cold Spring Harbor	40° 52.4'	73° 28.2'	-0 07	+0 02	*1.07	*0.92	7.27	7.86	3.86
1205	Eatons Neck Point	40° 57.2'	73° 24.0'	+0 02	+0 08	*1.05	*1.04	7.1	8.2	3.9
1207	Lloyd Harbor, Huntington Bay	40° 54.6'	73° 25.9'	-0 01	+0 07	*1.04	*0.88	7.02	7.60	3.73
1209	Northport, Northport Bay	40° 54.0'	73° 21.2'	-0 05	+0 04	*1.07	*0.92	7.25	7.84	3.86
1211	Port Jefferson Harbor entrance	40° 58'	73° 05'	+0 02	+0 01	*0.98	*0.98	6.6	7.6	3.5
1213	Port Jefferson	40° 57.0'	73° 04.6'	+0 04	+0 05	*0.98	*0.92	6.61	7.70	3.53
1215	Cedar Beach	40° 57.9'	73° 02.6'	+0 07	+0 05	*0.96	*1.00	6.43	7.01	3.46
1217	Mount Sinai Harbor	40° 57.8'	73° 02.4'	+0 04	+0 18	*0.89	*0.88	6.0	6.9	3.2
1219	Northville	40° 58.9'	72° 38.7'	+0 05	-0 03	*0.80	*0.92	5.35	6.10	2.89
1221	Mattituck Inlet	41° 00.9'	72° 33.7'	+0 11	+0 02	*0.76	*0.85	5.08	5.79	2.75
1223	Hashamomuck Beach	41° 05.7'	72° 23.9'	+0 03	-0 13	*0.64	*0.64	4.2	4.8	2.3
				on New London, p.60						
1225	Plum Gut Harbor, Plum Island	41° 10.3'	72° 12.3'	+0 33	+0 24	*1.01	*1.04	2.60	3.07	1.50
1227	Little Gull Island Shelter Island Sound	41° 12.4'	72° 06.1'	+0 13	-0 22	*0.85	*0.85	2.2	2.6	1.3
1229	Orient	41° 08'	72° 18'	+0 37	+0 36	*0.97	*0.97	2.5	3.0	1.4
1231	Greenport	41° 06.1'	72° 21.7'	+1 12	+0 48	*0.95	*0.95	2.44	2.81	1.40
1233	Southold	41° 04'	72° 25'	+1 44	+1 33	*0.89	*0.89	2.3	2.7	1.3
1235	Noyack Bay	41° 00'	72° 20'	+2 06	+1 44	*0.89	*0.89	2.3	2.7	1.3
1237	Sag Harbor	41° 00.2'	72° 17.8'	+1 00	+0 48	*0.93	*0.89	2.41	2.78	1.37
	Peconic Bays			on Sandy Hook, p.84						
1239	New Suffolk	41° 00'	72° 28'	+2 27	+2 11	*1.01	*1.00	2.6	3.1	1.5
1241	South Jamesport	40° 56.1'	72° 34.9'	+2 34	+2 43	*1.07	*0.95	2.79	3.29	1.57
1243	Threemile Harbor entrance, Gardiners Bay	41° 02.1'	72° 11.4'	+0 39	+0 19	*0.96	*1.00	2.48	2.98	1.44
1245	Lake Montauk	41° 04.4'	71° 56.1'	-0 26	-0 22	*0.77	*0.89	2.01	2.37	1.18
1247	Montauk Harbor entrance	41° 04.5'	71° 56.2'	-0 24	-0 16	*0.74	*0.75	1.9	2.3	1.0
1249	MONTAUK, FORT POND BAY	41° 02.9'	71° 57.6'			<i>Daily Predictions, p.56</i>		2.07	2.66	1.21
	Long Island, south shore			on Sandy Hook, p.84						
1251	Shinnecock Inlet (ocean) Shinnecock Bay	40° 50.2'	72° 28.8'	-0 16	-1 11	*0.66	*0.68	3.08	3.68	1.67
1253	Shinnecock Bay entrance	40° 49.2'	72° 33.7'	+1 12	+1 51	*0.51	*0.37	2.41	2.89	1.27
1255	Ponquoque Point	40° 51.0'	72° 30.2'	-0 06	+0 03	*0.60	*0.65	2.81	3.20	1.53
1257	Shinnecock Yacht Club, Penniman Creek	40° 49.1'	72° 33.2'	+1 01	+1 45	*0.55	*0.55	2.56	2.93	1.39
1259	Moriches Inlet	40° 45.8'	72° 45.3'	-0 10	-1 08	*0.61	*0.79	2.83	3.40	1.56
1261	Moriches Inlet Coast Guard Station	40° 47.2'	72° 45.0'	+0 42	+0 48	*0.46	*0.63	2.15	2.51	1.19
1263	Smith Point Bridge, Narrow Bay	40° 44.3'	72° 52.1'	+1 58	+2 34	*0.27	*0.60	1.19	1.47	0.71
1265	Democrat Point, Fire Island Inlet Great South Bay	40° 38'	73° 18'	-0 39	-0 27	*0.56	*0.55	2.6	3.1	1.4
1267	Fire Island Coast Guard Station	40° 37.6'	73° 15.6'	-0 04	-0 01	*0.42	*0.74	1.89	2.19	1.08
1269	Fire Island Light	40° 38.1'	73° 13.2'	+0 46	+1 22	*0.15	*0.15	0.7	0.8	0.3
1271	West Fire Island	40° 39.4'	73° 12.3'	+2 10	+2 18	*0.13	*0.13	0.6	0.7	0.3
1273	Seaview Ferry Dock	40° 38.9'	73° 09.0'	+2 20	+2 23	*0.27	*0.68	1.18	1.31	0.72
1275	Patchogue	40° 45.0'	73° 00.0'	+3 14	+3 33	*0.25	*0.53	1.11	1.33	0.66
1277	Great River, Connetquot River	40° 43.4'	73° 09.1'	+3 19	+3 32	*0.15	*0.15	0.7	0.8	0.3
1279	Bay Shore, Watchogue Creek Entrance	40° 43.0'	73° 14.4'	+2 15	+2 27	*0.22	*0.37	0.99	1.19	0.57
1281	Oak Beach	40° 38.5'	73° 17.2'	+2 23	+2 58	*0.15	*0.15	0.7	0.8	0.3
1283	Babylon	40° 41.1'	73° 18.9'	+2 11	+2 41	*0.13	*0.15	0.6	0.7	0.3
1285	Gilgo Heading	40° 37.2'	73° 23.7'	+2 22	+2 58	*0.24	*0.25	1.1	1.3	0.5
1287	Amityville	40° 39.3'	73° 25.1'	+2 20	+3 05	*0.26	*0.25	1.2	1.4	0.7
1289	Biltmore Shores, South Oyster Bay	40° 40'	73° 28'	+2 04	+2 32	*0.30	*0.30	1.4	1.7	0.8
1291	Point Lookout, Jones Inlet	40° 35.2'	73° 34.7'	-0 20	-0 25	*0.77	*0.75	3.6	4.3	2.0
1293	Point Lookout (marina), Jones Inlet Hempstead Bay	40° 35.6'	73° 35.0'	-0 02	-0 15	*0.89	*0.75	4.14	4.86	2.26
1295	Deep Creek Meadow	40° 36.2'	73° 31.5'	+1 01	+1 11	*0.51	*0.50	2.4	2.9	1.3
1297	Green Island Drawbridge	40° 37.4'	73° 30.1'	+0 33	+0 31	*0.67	*0.89	3.11	3.56	1.72
1299	Cuba Island	40° 37.2'	73° 31.4'	+1 07	+1 22	*0.49	*0.50	2.3	2.8	1.2
1301	Bellmore, Bellmore Creek	40° 39.8'	73° 31.2'	+1 28	+1 58	*0.43	*0.45	2.0	2.4	1.1
1303	Neds Creek	40° 37.4'	73° 33.3'	+0 49	+0 54	*0.58	*0.60	2.7	3.3	1.4

Endnotes can be found at the end of table 2.

TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Spring	
				High Water	Low Water	High Water	Low Water			
	NEW YORK Long Island, south shore-cont. Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft
				on Sandy Hook, p.84						
1305	<i>Hempstead Bay-cont.</i> Freeport, Baldwin Bay	40° 38.0'	73° 35.2'	+0 37		+0 55		*0.64	*0.65	3.0 3.6
1307	Baldwin, Parsonage Cove	40° 38.0'	73° 37.0'	+0 10		+0 20		*0.93	*0.95	4.35 5.08
1309	Long Beach (Inside)	40° 36'	73° 39'	+0 18		+0 02		*0.84	*0.85	3.9 4.7
1311	Long Beach, Bridgewater Yacht Club	40° 35.7'	73° 39.3'	+0 06		+0 08		*0.94	*0.89	4.43 5.14
1313	Bay Park, Hewlett Bay	40° 37.7'	73° 40.1'	+0 20		+0 25		*0.99	*1.00	4.63 5.33
1315	Woodmere, Brosewre Bay	40° 37'	73° 42'	+0 34		+0 50		*0.84	*0.85	3.9 4.7
1317	East Rockaway Inlet, Atlantic Beach	40° 35.6'	73° 44.4'	-0 05		-0 21		*0.93	*1.00	4.37 5.16
	<i>Jamaica Bay</i>									
1319	Kingsborough, Sheepshead Bay	40° 34.9'	73° 56.0'	+0 05		-0 03		*1.05	*1.11	4.92 5.82
1321	Plumb Beach Channel	40° 35.1'	73° 55.5'	+0 02		-0 03		*1.05	*1.05	4.9 5.9
1323	Barren Island, Rockaway Inlet	40° 34.7'	73° 53.3'	-0 01		-0 04		*1.07	*1.05	5.0 6.0
1325	Beach Channel (bridge)	40° 35'	73° 49'	+0 37		+0 24		*1.09	*1.10	5.1 6.2
1327	Motts Basin	40° 37.0'	73° 45.5'	+0 39		+0 48		*1.16	*1.15	5.4 6.5
1329	Norton Point, Hook Creek	40° 38.1'	73° 44.8'	+0 38		+0 45		*1.16	*1.16	5.4 6.5
1331	J.F.K. International Airport	40° 37.4'	73° 47.0'	+0 25		+0 45		*1.14	*1.15	5.3 6.4
1333	North Channel Bridge, Grassy Bay	40° 38.7'	73° 50.2'	+0 21		+0 27		*1.18	*1.16	5.56 6.42
1335	Canarsie	40° 37.8'	73° 53.1'	+0 27		+0 08		*1.12	*1.10	5.2 6.3
1337	Mill Basin	40° 37'	73° 55'	+0 28		+0 04		*1.12	*1.10	5.2 6.3
	NEW YORK and NEW JERSEY New York Harbor									
1339	Coney Island	40° 34'	73° 59'	-0 04		-0 17		*1.01	*1.00	4.7 5.7
1341	Norton Point, Gravesend Bay	40° 35.4'	73° 59.9'	-0 01		+0 03		*1.02	*1.15	4.7 5.7
1343	Fort Wadsworth, The Narrows	40° 36.4'	74° 03.3'	+0 06		+0 06		*0.98	*1.05	4.8 5.4
1345	Fort Hamilton, The Narrows	40° 36.5'	74° 02.1'	+0 02		+0 07		*1.01	*1.00	4.7 5.7
1347	U.S. Coast Guard Station, Staten Island	40° 36.7'	74° 03.6'	+0 12		+0 11		*0.96	*1.05	4.47 5.35
				on New York, p.72						
1349	St. George, Staten Island	40° 38.6'	74° 04.4'	-0 17		-0 15		*0.99	*0.99	4.5 5.4
1351	Gowanus Bay	40° 39.9'	74° 00.8'	-0 18		-0 12		*1.03	*0.95	4.7 5.7
1353	NEW YORK (The Battery)	40° 42.0'	74° 00.9'	<i>Daily Predictions</i>				4.53	5.50	2.47
	Hudson River <8>									
1355	Weehawken, Union City, N.J.	40° 45.9'	74° 01.1'	+0 13		+0 15		*0.96	*0.96	4.37 5.29
1357	Edgewater, N.J.	40° 48.8'	73° 58.7'	+0 31		+0 28		*0.93	*0.93	4.24 5.13
1359	Dyckman Street, Ferry Slip, N.Y.	40° 52.0'	73° 56.0'	+0 51		+0 44		*0.88	*0.81	3.98 4.66
1361	Spuytten Duyvil Creek ent., N.Y.	40° 52.7'	73° 55.5'	+0 52		+0 48		*0.84	*0.84	3.85 4.66
1363	Riverdale, N.Y.	40° 54.2'	73° 54.9'	+0 48		+0 49		*0.85	*0.85	3.86 4.67
1365	Alpine, N.J.	40° 56.7'	73° 55.1'	+1 05		+1 02		*0.83	*0.90	3.75 4.54
1367	Tarrytown	41° 04.7'	73° 52.2'	+1 49		+1 57		*0.70	*0.70	3.2 3.7
1369	Haverstraw	41° 13.1'	73° 57.8'	+2 15		+2 42		*0.72	*0.81	3.23 3.91
1371	Peekskill	41° 17'	73° 56'	+2 28		+3 03		*0.64	*0.64	2.9 3.4
1373	Newburgh	41° 30.0'	74° 00.4'	+3 46		+4 03		*0.62	*0.64	2.8 3.2
1375	Beacon	41° 30.3'	73° 58.2'	+3 37		+3 49		*0.70	*0.90	3.13 3.68
1377	New Hamburg	41° 35'	73° 57'	+4 04		+4 28		*0.64	*0.64	2.9 3.3
1379	Poughkeepsie	41° 42'	73° 57'	+4 34		+4 46		*0.68	*0.68	3.1 3.5
1381	Hyde Park	41° 47.2'	73° 57.8'	+5 00		+5 12		*0.70	*0.68	3.2 3.6
1383	Kingston	41° 55'	73° 59'	+5 20		+5 34		*0.81	*1.02	3.7 4.2
1385	Turkey Point	42° 00.8'	73° 56.3'	+5 29		+5 47		*0.87	*1.00	3.90 4.50
1387	Tivoli	42° 04'	73° 56'	+5 50		+6 04		*0.86	*0.86	3.9 4.4
1389	Hudson	42° 15'	73° 48'	+6 58		+7 12		*0.88	*0.86	4.0 4.4
				on Albany, p.80						
1391	Castleton	42° 32'	73° 46'	-0 17		-0 29		-0.2	+0.1	4.3 4.7
1393	ALBANY	42° 39.0'	73° 44.8'	<i>Daily predictions</i>				4.6	5.0	2.5
1395	Troy	42° 44'	73° 42'	+0 08		+0 10		*1.00	*1.00	4.7 5.1
	The Kills and Newark Bay			on New York, p.72						
	<i>Kill Van Kull</i>									
1397	Constable Hook	40° 39.3'	74° 05.2'	-0 18		-0 08		*1.02	*1.02	4.63 5.60
1399	BAYONNE BRIDGE, STATEN ISLAND	40° 38.4'	74° 08.8'	<i>Daily predictions, p.76</i>				4.98	5.52	2.70
1401	Port Elizabeth	40° 40.4'	74° 08.4'	-0 02		+0 13		*1.11	*0.95	5.05 6.11
1403	Port Newark Terminal	40° 41'	74° 08'	+0 03		+0 21		*1.12	*1.12	5.1 6.1
	<i>Passaic River</i>									
1405	Point No Point	40° 43.9'	74° 07.0'	+0 00		+0 22		*1.15	*1.04	5.21 6.30
1407	Belleville	40° 47.2'	74° 08.8'	+0 09		+0 49		*1.23	*1.19	5.60 6.78
1409	East Rutherford	40° 50.8'	74° 07.2'	+0 09		+1 06		*1.29	*1.29	5.87 7.10
1411	Garfield	40° 52.1'	74° 06.7'	+0 08		---		---	---	-- --
	<i>Hackensack River</i>									
1413	Kearny Point	40° 43.7'	74° 06.2'	+0 11		+0 22		*1.15	*1.14	5.21 6.30
1415	Amtrak RR, swing bridge	40° 45.1'	74° 05.8'	+0 33		+0 39		*1.16	*1.10	5.27 6.38
1417	Fish Creek, Berrys Creek	40° 47.6'	74° 05.5'	+1 02		+1 00		*1.16	*1.00	5.31 6.43
1419	Carlstadt, Garretts Reach	40° 48.4'	74° 03.6'	+0 59		+0 45		*1.26	*1.29	5.71 6.29
1421	North Secaucus, Garretts Reach	40° 48.4'	74° 02.6'	+0 57		+0 57		*1.23	*1.23	5.61 6.79
1423	Mill Creek, 0.8 n.mi. above entrance	40° 47.9'	74° 03.0'	+1 34		---		---	---	-- --
1425	Cromackill Creek, N.J. Turnpike	40° 48.2'	74° 02.0'	+1 00		---		---	---	-- --

Endnotes can be found at the end of table 2.

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No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Spring	
				High Water	Low Water	High Water	Low Water			
	NEW YORK and NEW JERSEY The Kills and Newark Bay-cont. Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft
	on New York, p.72									
	<i>Hackensack River-cont.</i>									
1427	Ridgefield Park	40° 51.0'	74° 01.8'	+1 00	+1 00	*1.26	*1.26	5.73	6.93	--
1429	Hackensack	40° 52.8'	74° 02.4'	+1 06	+1 00	*1.33	*1.38	6.01	7.27	3.29
1431	New Millford	40° 56.1'	74° 01.8'	+1 17	+2 49	*1.02	*1.02	4.76	5.76	2.44
	on Sandy Hook, p.84									
	<i>Arthur Kill</i>									
1433	Port Ivory, Howland Hook, N.Y.	40° 38.7'	74° 10.8'	+0 27	+0 39	*1.09	*1.09	5.10	6.12	2.78
1435	Rahway River, RR. Bridge	40° 35.9'	74° 13.9'	+0 17	+0 30	*1.14	*1.16	5.36	6.49	2.91
1437	Chelsea	40° 36'	74° 12'	+0 23	+0 37	*1.07	*1.05	5.0	6.0	2.7
1439	Carteret	40° 35.2'	74° 12.6'	+0 22	+0 33	*1.09	*1.09	5.1	6.2	2.8
1441	Rossville, N.Y.	40° 33.3'	74° 13.4'	+0 20	+0 29	*1.12	*1.12	5.22	5.84	2.89
1443	Port Reading	40° 33.3'	74° 14.7'	+0 14	+0 24	*1.13	*1.32	5.29	6.24	2.89
1445	Woodbridge Creek, 0.8 n.mi. above entrance ..	40° 32.7'	74° 15.9'	+0 09	+0 21	*1.10	*1.00	5.20	6.29	2.79
	Lower New York Bay, Raritan Bay, etc.									
1447	Great Kills Harbor	40° 32.6'	74° 08.4'	-0 01	+0 04	*1.05	*1.16	4.91	5.79	2.67
1449	Princes Bay	40° 30.7'	74° 12.0'	+0 00	+0 06	*1.05	*1.05	4.9	5.9	2.6
	<i>Raritan River</i>									
1451	South Amboy	40° 29.5'	74° 16.9'	-0 04	+0 08	*1.09	*1.09	5.09	6.11	2.77
1453	Keasbey	40° 30.5'	74° 18.7'	+0 06	+0 18	*1.10	*1.00	5.21	6.25	2.85
1455	Sayreville	40° 28.7'	74° 21.4'	+0 11	+0 25	*1.14	*1.21	5.43	6.57	2.95
1457	Old Bridge, South River	40° 25.0'	74° 21.8'	+0 48	+0 59	*1.18	*1.16	5.58	6.75	3.01
1459	New Brunswick	40° 29.3'	74° 26.1'	+0 32	+0 48	*1.21	*1.16	5.71	6.91	3.08
1461	Cheesequake Creek, Garden State Parkway	40° 27.2'	74° 16.4'	+0 12	+0 13	*1.09	*1.05	5.12	6.20	2.77
1463	Keyport	40° 26.4'	74° 11.9'	-0 04	+0 06	*1.08	*1.10	5.05	6.06	2.74
1465	Matawan Creek, Route 35 bridge	40° 26.0'	74° 13.1'	-0 01	+0 07	*1.08	*1.08	5.06	6.12	2.77
1467	Waackaack Creek	40° 26.9'	74° 08.6'	-0 06	+0 21	*0.99	*0.99	4.62	5.54	2.47
	NEW JERSEY Sandy Hook Bay									
1469	Pews Creek	40° 26.5'	74° 06.3'	-0 08	---	---	---	--	--	--
1471	Compton Creek	40° 25.9'	74° 05.1'	+0 13	---	---	---	--	--	--
1473	Atlantic Highlands	40° 25.1'	74° 02.1'	-0 10	-0 10	*1.01	*1.01	4.71	5.65	2.55
1475	SANDY HOOK (Fort Hancock)	40° 28.0'	74° 00.6'					4.70	5.71	2.54
	<i>Shrewsbury River</i>									
1477	Highlands, Route 36 bridge	40° 23.8'	73° 58.9'	+0 17	+0 14	*0.90	*0.90	4.19	5.03	2.27
1479	Oceanic Bridge, Navesink River	40° 22.6'	74° 00.9'	+1 13	+1 45	*0.72	*0.63	3.41	4.13	1.82
1481	Red Bank, Navesink River	40° 21.3'	74° 03.9'	+1 17	+1 57	*0.74	*0.63	3.51	4.25	1.87
1483	Sea Bright	40° 21.9'	73° 58.5'	+1 15	+1 07	*0.68	*0.68	3.15	3.78	1.74
1485	Gooseneck Point, bridge	40° 19.6'	74° 01.0'	+2 18	+2 41	*0.55	*0.55	2.57	3.08	1.44
1487	Long Branch Reach	40° 19.5'	73° 59.8'	+2 18	+2 41	*0.56	*0.63	2.60	3.15	1.42
	Outer Coast									
1489	Long Branch (fishing pier)	40° 18.2'	73° 58.6'	-0 26	-0 36	*0.94	*1.00	4.40	5.28	2.39
	<i>Shark River</i>									
1491	Shark River Island, fixed RR. bridge	40° 11.2'	74° 01.6'	-0 13	-0 08	*0.93	*0.93	4.32	5.18	2.32
1493	Shark River Hills	40° 11.6'	74° 02.3'	-0 13	-0 09	*0.94	*0.94	4.40	5.28	2.38
1495	New Bedford	40° 10.7'	74° 02.8'	-0 13	-0 07	*0.95	*0.95	4.41	5.29	2.40
1497	Belmar, Atlantic Ocean	40° 11.1'	74° 00.5'	-0 35	-0 45	*0.95	*0.95	4.43	5.32	2.38
1499	Manasquan Inlet, USCG Station	40° 06.1'	74° 02.1'	-0 12	-0 24	*0.86	*0.95	4.02	4.82	2.19
	<i>Manasquan River</i>									
1501	Brielle, Route 35 bridge	40° 06.3'	74° 03.3'	-0 06	-0 20	*0.83	*0.83	3.86	4.63	2.10
1503	Riviera Beach	40° 05.8'	74° 05.2'	+0 08	+0 38	*0.73	*0.73	3.39	4.07	1.83
	<i>Metedeconk River</i>									
1505	Beaverdam Creek entrance	40° 03.7'	74° 03.7'	+2 41	+2 40	*0.07	*0.37	0.30	0.36	0.22
1507	Beaverdam Creek, inside	40° 03.7'	74° 04.4'	+2 49	+2 47	*0.06	*0.06	0.29	0.35	0.25
1509	Forge Pond	40° 03.9'	74° 08.1'	+2 17	+2 07	*0.07	*0.07	0.31	0.37	0.23
1511	Tall Pines Camp	40° 03.5'	74° 07.0'	+2 23	+2 24	*0.06	*0.06	0.30	0.36	0.23
1513	Seaside Heights, ocean	39° 56.5'	74° 04.1'	-0 30	-0 32	*0.92	*0.92	4.29	5.15	2.33
	<i>Barnegat Bay</i>									
1515	Mantoloking	40° 02.2'	74° 03.2'	+4 28	+4 39	*0.07	*0.07	0.33	0.40	0.25
1517	Kettle Creek, Green Island	40° 00.8'	74° 06.8'	+4 23	+4 41	*0.08	*0.08	0.38	0.46	0.28
1519	Ocean Beach	39° 59.3'	74° 04.1'	+4 17	+4 36	*0.08	*0.08	0.37	0.44	0.27
1521	Silver Bay, Silver Bay Marina	39° 59.8'	74° 08.9'	+4 26	+4 39	*0.08	*0.08	0.37	0.44	0.27
1523	Goose Creek entrance	39° 57.8'	74° 06.9'	+4 06	+4 29	*0.08	*0.08	0.35	0.42	0.25
1525	Coates Point	39° 56.9'	74° 06.9'	+4 00	+4 21	*0.08	*0.08	0.37	0.44	0.25
1527	Toms River (town), Toms River	39° 57.0'	74° 11.9'	+3 33	+3 48	*0.18	*0.47	0.78	0.83	0.48
1529	Seaside Park	39° 55.3'	74° 05.0'	+3 40	+4 05	*0.08	*0.08	0.38	0.46	0.25
1531	Barnegat Pier	39° 55.1'	74° 06.6'	+3 35	+3 55	*0.08	*0.08	0.36	0.43	0.23
1533	Sloop Creek	39° 54.3'	74° 08.0'	+3 38	+4 01	*0.08	*0.08	0.35	0.42	0.22
1535	Cedar Creek	39° 52.2'	74° 09.3'	+3 23	+3 45	*0.08	*0.08	0.35	0.42	0.23
1537	Island Beach	39° 51.1'	74° 05.4'	+3 04	+3 28	*0.08	*0.08	0.35	0.42	0.24
1539	Stouts Creek	39° 50.7'	74° 09.1'	+3 16	+3 33	*0.06	*0.06	0.30	0.36	0.20
1541	Forked River	39° 49.5'	74° 10.4'	+3 08	+3 20	*0.07	*0.07	0.32	0.38	0.24
1543	Oyster Creek	39° 48.5'	74° 11.3'	+3 30	+3 36	*0.06	*0.06	0.29	0.35	0.20
1545	Island Beach, Sedge Islands	39° 47.3'	74° 05.9'	+3 00	+3 56	*0.07	*0.07	0.34	0.41	0.24
1547	Waretown	39° 47.5'	74° 10.9'	+2 43	+3 00	*0.07	*0.07	0.34	0.41	0.24
1549	Barnegat Inlet, USCG Station	39° 45.7'	74° 06.7'	-0 12	+0 02	*0.47	*0.63	2.16	2.59	1.20

Endnotes can be found at the end of table 2.

TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Spring	
				High Water	Low Water	High Water	Low Water			
	NEW JERSEY Outer Coast-cont. Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft
				on Sandy Hook, p.84						
	<i>Barnegat Bay-cont.</i>									
1551	High Bar	39° 45.4'	74° 07.7'	+1 04		+1 55		*0.12	*0.12	0.54 0.65
1553	Double Creek	39° 44.7'	74° 12.1'	+3 03		+3 33		*0.07	*0.07	0.31 0.37
1555	Loveladies Harbor	39° 43.5'	74° 08.2'	+3 02		+3 39		*0.10	*0.10	0.46 0.55
	<i>Manahawkin Bay</i>									
1557	Flat Creek	39° 42.4'	74° 11.5'	+3 33		+4 35		*0.18	*0.18	0.84 1.01
1559	North Beach	39° 40.5'	74° 09.6'	+3 02		+4 07		*0.22	*0.22	1.02 1.22
1561	Manahawkin Creek	39° 40.0'	74° 12.9'	+2 50		+3 51		*0.27	*0.27	1.25 1.50
1563	Manahawkin Drawbridge	39° 39.2'	74° 11.1'	+2 47		+3 39		*0.27	*0.27	1.26 1.51
	<i>Little Egg Harbor</i>									
1565	Mill Creek, 1 n.mi. above entrance	39° 39.9'	74° 13.9'	+2 32		+3 33		*0.35	*0.35	1.61 1.93
1567	Cedar Run	39° 39.2'	74° 15.4'	+2 10		+2 56		*0.40	*0.40	1.86 2.23
1569	Dinner Point Creek, upper end	39° 39.4'	74° 16.2'	+2 41		+3 17		*0.40	*0.40	1.88 2.26
1571	Beach Haven Crest	39° 36.8'	74° 12.6'	+2 13		+2 59		*0.38	*0.32	1.81 2.19
1573	Westcunk Creek entrance, Long Point	39° 36.8'	74° 15.8'	+2 00		+2 40		*0.42	*0.47	1.97 2.38
1575	West Creek, Westcunk Creek	39° 37.9'	74° 17.8'	+2 10		+2 40		*0.44	*0.47	2.08 2.52
1577	Parker Run, upper end	39° 37.0'	74° 18.6'	+2 05		+2 39		*0.45	*0.47	2.09 2.53
1579	Tuckerton Creek entrance	39° 34.6'	74° 19.9'	+1 32		+1 59		*0.45	*0.45	2.11 2.53
1581	Tuckerton, Tuckerton Creek	39° 36.1'	74° 20.5'	+1 45		+2 15		*0.45	*0.47	2.11 2.55
1583	Beach Haven Coast Guard Station	39° 32.9'	74° 15.4'	+1 18		+1 23		*0.46	*0.58	2.15 2.60
	<i>Great Bay</i>									
1585	Shooting Thorofare, Little Egg Inlet	39° 30.5'	74° 19.5'	+0 38		+0 21		*0.62	*0.79	2.88 3.24
1587	Little Sheepshead Creek	39° 31.1'	74° 19.2'	+0 35		+0 44		*0.66	*0.68	3.10 3.75
1589	Seven Island, Newmans Thorofare	39° 31.0'	74° 20.2'	+0 32		+0 28		*0.73	*0.73	3.4 4.1
1591	Graveling Point	39° 32.4'	74° 23.2'	+0 44		+1 14		*0.68	*0.68	3.18 3.82
	<i>Mullica River</i>									
1593	Nacote Creek, U.S. Highway 9 bridge	39° 32.1'	74° 27.8'	+1 34		+1 55		*0.66	*0.68	3.09 3.74
1595	Chestnut Neck Boat Yard	39° 32.9'	74° 27.7'	+1 27		+2 01		*0.63	*0.79	2.94 3.53
1597	New Gretna, Bass River	39° 35.5'	74° 26.5'	+1 52		+2 06		*0.66	*0.74	3.10 3.75
1599	Wading River (town), Wading River	39° 37.1'	74° 29.8'	+2 48		+2 44		*0.64	*0.79	2.98 3.61
1601	Green Bank	39° 36.7'	74° 35.4'	+2 59		+3 16		*0.66	*0.66	3.07 3.68
1603	Sweetwater, Mullica River Marina	39° 37.5'	74° 38.5'	+3 23		+4 21		*0.56	*0.56	2.42 3.14
				on Atlantic City, p.88						
1605	Main Marsh Thorofare	39° 28.7'	74° 23.0'	+1 10		+1 52		*0.80	*0.76	3.21 3.92
1607	Brigantine Channel, Hoffman Thorofare	39° 26.1'	74° 21.8'	+0 59		+0 58		*0.90	*0.88	3.63 4.43
1609	Reed Bay, Turtle Cove	39° 27.2'	74° 25.6'	+1 07		---		---	---	---
1611	Absecon, Absecon Creek, U.S. Hwy. 30 bridge	39° 25.4'	74° 30.0'	+1 28		+1 37		*0.96	*0.94	3.77 4.72
1613	Absecon Channel, State Route 87 bridge	39° 23.1'	74° 25.5'	+0 38		+0 26		*0.96	*1.13	3.90 4.68
1615	ATLANTIC CITY, OCEAN	39° 21.3'	74° 25.1'							4.02 4.90
1617	Ventnor City, ocean pier	39° 20.1'	74° 28.6'	-0 02		-0 02		*1.00	*1.00	4.04 4.92
1619	Longport (inside), Great Egg Harbor Inlet	39° 18.5'	74° 32.0'	+0 26		+0 32		*0.94	*0.88	3.78 4.61
1621	Dock Thorofare, Risley Channel	39° 21.1'	74° 32.4'	+0 55		+1 00		*0.98	*0.94	3.92 4.78
1623	Pleasantville, Lakes Bay, Great Egg Harbor Inlet	39° 22.9'	74° 31.1'	+1 00		+1 37		*0.98	*0.82	3.96 4.83
	<i>Great Egg Harbor Bay</i>									
1625	Beesleys Point	39° 17.3'	74° 37.7'	+0 55		+1 32		*0.87	*1.00	3.55 4.26
1627	Steelmanville, Patcong Ck., 2.5 nm above ent.	39° 20.1'	74° 35.8'	+1 28		+1 50		*0.92	*0.94	3.70 4.51
1629	Tuckahoe, Tuckahoe River	39° 17.7'	74° 44.9'	+2 12		+2 40		*0.86	*1.25	3.47 4.16
1631	Cedar Swamp Creek, Tuckahoe River	39° 14.8'	74° 43.1'	+3 14		+3 03		*0.78	*1.53	2.99 3.65
1633	River Bend Marina, Great Egg Harbor River	39° 22.1'	74° 43.0'	+2 12		+2 25		*0.87	*1.00	3.47 4.23
1635	Mays Landing, Great Egg Harbor River	39° 26.9'	74° 43.7'	+2 50		+3 10		*1.01	*1.12	4.06 4.95
	<i>Corson Inlet</i>									
1637	Strathmere, Strathmere Bay	39° 12.0'	74° 39.4'	+0 31		+0 38		*0.95	*1.00	3.81 4.65
1639	Middle Thorofare, Ocean Drive bridge	39° 12.9'	74° 38.9'	+0 31		+0 30		*0.95	*0.94	3.80 4.64
1641	Ludlam Bay, west side	39° 10.6'	74° 42.6'	+0 56		+1 12		*0.98	*0.94	3.94 4.81
	<i>Townsend Inlet</i>									
1643	Ocean Drive bridge	39° 07.3'	74° 43.0'	+0 29		+0 21		*0.99	*1.06	3.96 4.62
1645	Townsend Sound	39° 08.8'	74° 45.0'	+1 08		+1 39		*0.90	*0.59	3.69 4.50
1647	Stites Sound	39° 07.2'	74° 45.3'	+0 49		+1 04		*0.97	*1.00	3.98 4.78
1649	Ingram Thorofare	39° 06.6'	74° 44.4'	+0 44		+0 50		*0.96	*1.00	3.93 4.72
1651	Long Reach, Ingram Thorofare	39° 06.1'	74° 45.3'	+1 06		+1 11		*0.98	*1.06	4.00 4.80
	<i>Hereford Inlet</i>									
1653	Great Sound, west side	39° 06.1'	74° 47.3'	+0 56		---		---	---	---
1655	Stone Harbor, Great Channel	39° 03.4'	74° 45.9'	+0 56		+0 57		*1.04	*0.94	4.19 4.72
1657	Jenkins Sound	39° 03.9'	74° 48.5'	+0 52		---		---	---	---
1659	Nummy Island, Grassy Sound Channel	39° 01.7'	74° 48.1'	+0 32		+0 45		*1.00	*1.00	4.09 4.91
1661	West Wildwood, Grassy Sound	39° 00.3'	74° 49.6'	+0 57		+1 11		*1.04	*1.00	4.27 5.12
1663	Old Turtle Thorofare, RR. bridge	39° 01.1'	74° 50.5'	+0 56		+1 10		*1.06	*1.00	4.33 5.20
1665	Wildwood Crest, ocean pier	38° 58.5'	74° 49.4'	+0 03		+0 03		*1.07	*1.06	4.31 5.15
	<i>Cape May Inlet</i>									
1667	Swain Channel, Taylor Sound	38° 58.8'	74° 51.8'	+0 55		+0 40		*1.09	*1.06	4.46 5.35
1669	Wildwood Crest, Sunset Lake	38° 58.7'	74° 50.2'	+0 52		+0 47		*1.10	*1.06	4.50 5.40
1671	Cape May Harbor	38° 56.9'	74° 53.5'	+0 33		+0 19		*1.10	*1.06	4.49 5.39
1673	Cape Island Creek, Cape May	38° 56.8'	74° 54.8'	+0 40		+0 20		*1.11	*1.19	4.51 5.41
1675	Cape May, Atlantic Ocean	38° 55.8'	74° 56.1'	+0 34		+0 21		*1.12	*1.06	4.59 5.51
	Delaware Bay, Eastern Shore			on Breakwater Harbor, p.92						
1677	Brandywine Shoal Light	38° 59.2'	75° 06.8'	+0 12		+0 17		*1.19	*1.06	4.89 5.77
1679	Cape May Point, Sunset Beach	38° 56.8'	74° 58.3'	-0 05		-0 08		*1.16	*1.16	4.80 5.66
1681	Cape May, ferry terminal	38° 58.1'	74° 57.5'	-0 06		-0 05		*1.18	*1.00	4.85 5.73
1683	North Highlands Beach	39° 01.1'	74° 57.2'	+0 04		+0 14		*1.26	*1.26	5.24 6.18
1685	Dias Creek, Route 47 bridge	39° 05.0'	74° 53.2'	+1 09		+3 18		*0.46	*0.46	1.89 2.23

Endnotes can be found at the end of table 2.

TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Spring	
				High Water	Low Water	High Water	Low Water			
	NEW JERSEY Delaware Bay, Eastern Shore-cont. Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft
				on Breakwater Harbor, p.92						
1687	Bidwell Creek entrance	39° 07.7'	74° 53.5'	+0 15	+0 46	*1.39	*1.19	5.67	6.69	3.03
1689	Bidwell Creek, Route 47 bridge	39° 07.1'	74° 52.1'	+0 36	+0 48	*1.36	*1.36	5.66	6.68	3.01
1691	Dennis Creek, 2.5 n.mi. above entrance	39° 10.7'	74° 51.1'	+0 55	+1 17	*1.26	*1.26	5.23	6.17	2.88
1693	Sluice Creek, Route 47 bridge, Dennis Creek	39° 09.7'	74° 49.9'	+1 49	+1 36	*1.22	*1.22	5.05	5.96	2.82
1695	Dennis Creek, Route 47 bridge	39° 11.0'	74° 49.3'	+2 01	+1 30	*1.20	*1.20	4.96	5.85	2.79
1697	East Creek, Route 47 bridge	39° 12.5'	74° 54.1'	+1 46	+2 24	*0.94	*0.94	3.92	4.63	2.20
1699	West Creek, 0.7 n.mi. above entrance	39° 11.3'	74° 54.9'	+0 20	+1 31	*1.15	*1.15	4.76	5.33	2.55
1701	West Creek, Route 47 bridge	39° 13.0'	74° 55.5'	+2 20	+3 17	*0.58	*0.58	2.40	2.83	1.51
1703	Riggins Ditch, 0.5 n.mi. above entrance	39° 12.0'	74° 58.2'	+0 29	+1 29	*1.24	*1.24	5.14	6.07	2.79
1705	Riggins Ditch, Heislerville	39° 13.1'	74° 58.8'	+1 36	+1 40	*1.12	*1.12	4.65	5.49	2.55
1707	East Point, Maurice River Cove	39° 12.0'	75° 01.2'	+0 40	+1 08	*1.39	*1.39	5.75	6.78	3.08
	<i>Maurice River</i>									
1709	Bivalve	39° 13.9'	75° 02.0'	+0 35	+1 11	*1.38	*1.19	5.66	6.26	3.02
1711	Mauricetown	39° 17.1'	74° 59.5'	+2 17	+2 30	*1.05	*1.05	4.36	5.14	2.42
1713	Port Elizabeth, Manumuskin River	39° 18.8'	74° 59.1'	+2 52	+2 58	*1.05	*1.05	4.34	5.12	2.42
1715	Menantico Creek entrance	39° 20.6'	75° 00.5'	+3 06	+3 09	*1.10	*1.10	4.58	5.40	2.52
1717	Millville	39° 23.5'	75° 02.5'	+3 33	+3 36	*1.21	*1.21	5.01	5.91	2.75
1719	Dividing Creek entrance	39° 13.0'	75° 06.4'	+0 29	+1 05	*1.35	*1.35	5.62	6.63	2.99
1721	Weir Creek bridge, Dividing Creek	39° 15.0'	75° 07.7'	+1 38	+2 33	*0.71	*0.71	2.96	3.49	1.69
1723	Dividing Creek (town), Dividing Creek	39° 16.0'	75° 05.7'	+3 07	---	---	---	---	---	---
				on Reedy Point, p.96						
1725	Fishing Creek entrance	39° 12.9'	75° 09.6'	-1 51	-2 10	*1.02	*1.02	5.63	6.14	3.00
1727	Fortescue Creek	39° 14.3'	75° 10.5'	-1 57	-2 13	*1.09	*0.94	5.85	7.06	3.10
1729	Hollywood Beach, The Glades	39° 16.5'	75° 08.5'	+1 45	+1 13	*0.21	*0.21	1.16	1.26	0.71
1731	Money Island, Nantuxent Creek entrance	39° 17.1'	75° 14.3'	-1 43	-1 58	*1.10	*1.10	6.07	6.62	3.21
1733	Newport Landing, Nantuxent Creek	39° 17.5'	75° 11.9'	-0 03	-0 28	*0.74	*0.74	4.06	4.43	2.38
1735	Cedar Creek entrance, Nantuxent Cove	39° 17.9'	75° 14.8'	-1 37	-1 51	*1.08	*1.08	5.96	6.50	3.17
1737	Cedarville, Cedar Creek, Nantuxent Cove	39° 19.8'	75° 12.7'	-0 37	---	---	---	---	---	---
1739	Back Creek entrance, Nantuxent Cove	39° 18.3'	75° 16.7'	-1 29	-1 34	*1.07	*1.07	5.91	6.44	3.11
1741	Husted Landing, Ogden Creek, Back Creek	39° 21.1'	75° 15.1'	-0 47	---	---	---	---	---	---
1743	Greenwich Pier, Cohanse River	39° 23.0'	75° 21.0'	-0 42	-0 54	*0.99	*0.99	5.47	5.96	2.94
1745	Tindalls Wharf, Cohanse River	39° 22.7'	75° 14.1'	+1 01	-0 02	*1.09	*1.09	5.98	6.52	3.20
	DELAWARE Delaware Bay, Western Shore			on Breakwater Harbor, p.92						
1747	LEWES (BREAKWATER HARBOR)	38° 46.9'	75° 07.2'	<i>Daily predictions</i>				4.08	4.94	2.19
1749	Mispiration River entrance	38° 56.9'	75° 18.9'	+0 22	+0 50	*1.13	*1.00	4.63	5.46	2.48
1751	Murderkill River entrance	39° 03.5'	75° 23.8'	+0 39	+1 11	*1.25	*0.94	5.12	6.04	2.71
1753	Mahon River entrance	39° 11.1'	75° 24.0'	+0 58	+1 29	*1.30	*1.13	5.33	6.29	2.84
1755	Leipsic, Leipsic River	39° 14.6'	75° 31.1'	+3 35	+3 49	*0.85	*0.63	3.50	4.13	1.80
	DELAWARE and NEW JERSEY Delaware River			on Reedy Point, p.96						
1757	Stathems Neck, Stow Creek, N.J.	39° 24.4'	75° 24.3'	-0 22	-0 37	*0.88	*0.88	4.85	5.29	2.65
1759	Woodland Beach, Del.	39° 20.2'	75° 28.3'	-1 07	-1 10	*1.11	*1.11	5.90	6.80	3.00
1761	Raccoon Ditch, Newport Meadows, Stow Creek, N.J.	39° 25.3'	75° 22.9'	+1 08	+0 33	*0.76	*0.76	4.17	4.55	2.30
1763	Canton, Stow Creek, N.J. <i>Mad Horse Creek</i>	39° 27.7'	75° 24.2'	+1 36	+0 45	*0.80	*0.80	4.42	4.82	2.49
1765	1 n.mi. above entrance, N.J.	39° 25.9'	75° 26.8'	-0 20	-0 47	*1.07	*1.07	5.86	6.39	3.12
1767	Pine Island, Malapartis Creek, N.J.	39° 25.3'	75° 25.7'	+0 21	-0 18	*0.92	*0.92	5.08	5.54	2.76
1769	Silver Lake Fork, N.J.	39° 27.2'	75° 27.4'	+0 04	---	---	---	---	---	---
1771	Hope Creek, 0.6 n.mi. above entrance, N.J.	39° 27.5'	75° 29.7'	-0 25	-0 36	*1.05	*1.05	5.78	6.30	3.07
1773	Hope Creek, upper end, N.J.	39° 29.1'	75° 29.6'	+0 49	---	---	---	---	---	---
1775	Taylor's Bridge, Blackbird Creek, Del.	39° 24.0'	75° 36.0'	+1 53	+0 57	*0.54	*0.56	2.90	3.30	1.50
1777	Artificial Island, Salem Nuclear Plant, N.J. <i>Alloway Creek, New Jersey</i>	39° 27.7'	75° 31.9'	-0 35	-0 33	*1.08	*1.08	5.93	6.46	3.16
1779	0.8 n.mi. above entrance	39° 29.8'	75° 31.0'	+0 21	-0 10	*0.99	*0.99	5.44	5.93	3.18
1781	Abbots Meadow	39° 30.7'	75° 29.6'	+0 44	+0 12	*0.94	*0.94	5.15	5.61	2.76
1783	2.5 n.mi. above entrance	39° 30.3'	75° 29.0'	+0 51	+0 15	*0.90	*0.90	4.95	5.40	2.67
1785	Coopers Creek bridge	39° 30.8'	75° 26.8'	+1 51	+1 00	*0.78	*0.78	4.30	4.69	2.37
1787	Quinton	39° 32.9'	75° 24.9'	+2 24	+1 30	*0.69	*0.69	3.79	4.13	2.17
1789	Alloway	39° 33.9'	75° 21.8'	+3 37	---	---	---	---	---	---
1791	Mill Creek, Elsinboro, N.J. <i>Salem River, New Jersey</i>	39° 32.1'	75° 30.7'	-0 04	---	---	---	---	---	---
1793	Sinnickson Landing	39° 34.2'	75° 29.9'	+0 04	+0 19	*0.97	*0.97	5.32	5.80	2.83
1795	Salem	39° 34.6'	75° 28.6'	+0 49	+0 41	*0.76	*0.76	4.19	4.57	2.29
1797	Kates Creek Meadow	39° 37.5'	75° 27.2'	+1 54	---	---	---	---	---	---
1799	Winslow Farms	39° 37.7'	75° 28.9'	+2 09	---	---	---	---	---	---
1801	Beaver Dam	39° 39.0'	75° 29.2'	+2 32	---	---	---	---	---	---
1803	REEDY POINT <i>Chesapeake and Delaware Canal</i>	39° 33.5'	75° 34.4'	<i>Daily predictions</i>				5.34	5.81	2.85
1805	St. Georges, Delaware	39° 33.3'	75° 38.9'	-0 16	-0 17	*0.83	*1.00	4.41	4.81	2.39
1807	Summit Bridge, Delaware	39° 32.0'	75° 44.0'	-0 28	-0 52	*0.65	*0.56	3.50	3.90	1.80
1809	Chesapeake City, Maryland	39° 31.6'	75° 48.6'	-0 45	-1 12	*0.56	*1.28	2.86	3.14	1.66
1811	Delaware City Branch Channel bridge	39° 34.2'	75° 35.4'	+0 00	+0 05	*1.02	*0.89	5.45	5.94	2.88
1813	Delaware City	39° 34.9'	75° 35.3'	+0 11	+0 14	*1.02	*1.00	5.44	5.93	2.90
1815	Pea Patch Island, Bulkhead Shoal Channel, Del.	39° 35.1'	75° 34.4'	+0 03	+0 00	*1.05	*1.00	5.62	6.13	2.99
1817	Mill Creek, Penns Neck, N.J.	39° 36.6'	75° 31.2'	+0 08	---	---	---	---	---	---
1819	New Castle, Delaware	39° 39.4'	75° 33.7'	+0 29	+0 40	*0.98	*1.00	5.21	5.68	2.78
1821	Salem Canal entrance, N.J.	39° 41.0'	75° 30.6'	+0 36	+0 52	*1.00	*1.00	5.52	6.02	2.94

Endnotes can be found at the end of table 2.

TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Spring	
				High Water	Low Water	High Water	Low Water			
	DELAWARE and NEW JERSEY Delaware River-cont. Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft
				on Reedy Point, p.96						
	<i>Christina River, Delaware</i>									
1823	Wilmington Marine Terminal	39° 43.1'	75° 31.2'	+0 50	+1 06	*0.99	*1.11	5.27	5.74	2.83
1825	Millside, RR. bridge	39° 43.5'	75° 33.6'	+1 08	+1 19	*0.99	*1.06	5.30	5.78	2.84
1827	Edgemoor, Del.	39° 45.0'	75° 29.6'	+0 52	+1 11	*1.02	*1.17	5.52	6.02	2.97
1829	Pedricktown, Oldmans Creek, N.J.	39° 45.7'	75° 24.2'	+2 11	+2 07	*0.75	*0.75	4.13	4.50	2.32
1831	Auburn, Oldmans Creek, N.J.	39° 42.9'	75° 21.6'	+4 12	+3 30	*0.55	*0.55	2.74	2.99	1.65
	NEW JERSEY and PENNSYLVANIA Delaware River			on Philadelphia, p.100						
1833	Marcus Hook, Pa.	39° 48.7'	75° 24.7'	-1 23	-1 07	*0.92	*0.95	5.53	5.86	2.96
1835	Bridgeport, Raccoon Creek, N.J.	39° 48.4'	75° 21.3'	-1 11	-0 50	*0.91	*1.00	5.42	5.66	2.91
1837	Swedesboro, Raccoon Creek, N.J.	39° 45.1'	75° 18.4'	+0 40	---	---	---	---	---	---
	<i>Darby Creek, Pennsylvania</i>									
1839	Wanamaker Bridge	39° 52.6'	75° 18.3'	-0 46	-0 34	*0.95	*0.95	5.71	6.05	3.05
1841	Norwood City	39° 52.8'	75° 17.4'	-0 42	-0 35	*0.97	*1.00	5.79	6.13	3.09
1843	Tinicum National Wildlife Refuge	39° 52.7'	75° 16.6'	-0 22	-0 08	*0.91	*0.90	5.47	5.80	2.91
1845	Tinicum National Wildlife Refuge	39° 53.2'	75° 15.9'	-0 24	+0 27	*0.74	*0.74	4.51	4.78	2.33
1847	Tinicum Nat. Wildlife Refuge, Visitor Center	39° 53.5'	75° 15.5'	-0 10	---	---	---	---	---	---
1849	Billingsport, N.J.	39° 51.0'	75° 15.0'	-0 35	-0 28	*0.93	*0.95	5.59	5.93	2.99
1851	Paulsboro, Mantua Creek, N.J.	39° 50.1'	75° 14.3'	-0 24	-0 19	*0.94	*0.90	5.64	5.88	3.01
1853	Mantua, Mantua Creek, N.J.	39° 47.8'	75° 10.6'	+1 28	+0 56	*0.71	*0.71	4.19	4.37	2.31
1855	Woodbury Creek, N.J.	39° 51.6'	75° 11.2'	-0 13	-0 14	*0.96	*0.95	5.75	6.10	3.07
	<i>Schuylkill River, Pennsylvania</i>									
1857	Penrose Avenue Bridge	39° 53.9'	75° 12.7'	-0 22	-0 11	*0.96	*0.85	5.79	6.14	3.07
1859	Market Street Bridge	39° 57.3'	75° 10.8'	-0 20	+0 00	*0.99	*0.80	5.94	6.30	3.13
1861	Westville, Rt. 47 bridge, Big Timber Creek, N.J.	39° 52.5'	75° 07.4'	+0 02	+0 03	*0.97	*1.00	5.80	6.15	3.10
1863	Sunset Beach, Big Timber Creek, N.J.	39° 48.9'	75° 05.3'	+1 32	---	---	---	---	---	---
1865	Philadelphia, Municipal Pier 11, Pa.	39° 57.2'	75° 08.3'	+0 02	+0 05	*1.04	*0.95	6.24	6.61	3.32
1867	PHILADELPHIA, US Coast Guard Station, Pa.	39° 56.0'	75° 08.5'	---	---	---	---	5.99	6.32	3.30
1869	Pavonia, Cooper River, RR. bridge, N.J.	39° 56.8'	75° 06.3'	+0 14	+0 23	*1.04	*1.00	6.24	6.61	3.32
1871	Bridesburg, Philadelphia, Pa.	39° 59.0'	75° 04.5'	+0 12	+0 15	*1.06	*0.90	6.39	6.50	3.38
1873	Palmyra, Pennsauken Creek, Route 73 bridge, N.J.	39° 59.6'	75° 01.7'	+0 51	+1 03	*0.89	*0.89	5.25	5.48	2.86
1875	Cinnaminson, Pennsauken Ck., Rt. 130 bridge, N.J.	39° 59.1'	75° 00.9'	+1 37	---	---	---	---	---	---
1877	Tacony-Palmyra Bridge	40° 00.7'	75° 02.6'	+0 24	+0 25	*1.10	*0.95	6.60	7.00	3.49
1879	Pompeston Creek, N.J.	40° 00.8'	75° 00.5'	+0 21	+0 43	*1.05	*1.05	6.39	6.68	3.30
	<i>Rancocas Creek, New Jersey</i>									
1881	Bridgeboro	40° 01.7'	74° 55.9'	+1 15	+1 18	*1.06	*1.00	6.35	6.73	3.38
1883	North Branch	39° 59.9'	74° 49.1'	+2 58	+3 29	*0.48	*0.60	2.86	3.03	1.55
1885	Hainesport, South Branch	39° 58.7'	74° 49.4'	+2 58	+3 05	*0.62	*0.62	3.63	3.85	2.05
1887	Cornwells Heights, Pa.	40° 04.1'	74° 56.3'	+0 46	+0 58	*1.17	*1.00	7.02	7.44	3.71
1889	Burlington, N.J.	40° 04.8'	74° 52.5'	+0 53	+1 07	*1.20	*1.00	7.24	7.63	3.83
1891	Assiscunk Creek, Route 130 bridge, N.J.	40° 04.4'	74° 50.9'	+1 04	+1 31	*1.12	*0.85	6.75	7.16	3.54
1893	Edgely, Pa.	40° 07.7'	74° 49.4'	+1 08	+1 28	*1.27	*1.15	7.64	8.10	4.05
1895	Fieldsboro, N.J.	40° 08.2'	74° 44.2'	+1 07	+1 39	*1.29	*1.10	7.78	8.25	4.11
1897	Newbold, Pa.	40° 08.2'	74° 45.1'	+1 10	+1 31	*1.30	*1.00	7.86	8.33	4.13
1899	Blacks Creek, Route 130 bridge, N.J.	40° 08.3'	74° 42.7'	+1 13	---	---	---	---	---	---
1901	Sylvan Glen, Crosswicks Ck., Rt. 206 bridge, N.J.	40° 10.9'	74° 42.3'	+2 03	---	---	---	---	---	---
1903	Crosswicks Creek, Route 130 bridge, N.J.	40° 10.4'	74° 40.8'	+3 07	---	---	---	---	---	---
1905	Trenton, N.J.	40° 11.3'	74° 45.3'	+1 13	+1 54	*1.35	*1.00	8.18	8.47	4.29
	DELAWARE and MARYLAND Outer Coast			on Ocean City, p.104						
1907	Rehoboth Beach	38° 43.2'	75° 04.6'	+0 15	+0 08	*1.13	*1.33	3.9	4.7	2.1
1909	Indian River Inlet (Coast Guard Station)	38° 36.6'	75° 04.2'	+1 14	+0 45	*0.76	*1.00	2.51	2.94	1.41
1911	OCEAN CITY (FISHING PIER)	38° 19.6'	75° 05.0'	---	---	---	---	3.36	4.00	1.84
1913	Ocean City Inlet	38° 19.7'	75° 05.5'	+0 28	+0 14	*0.65	*1.00	2.13	2.62	1.23
1915	Ocean City (Isle of Wight Bay)	38° 19.9'	75° 05.4'	+0 25	+0 23	*0.67	*0.94	2.20	2.61	1.25
1917	Keydash, Isle of Wight Bay	38° 20.5'	75° 05.1'	-0 57	+0 54	*0.47	*0.81	1.53	1.82	0.89
	MARYLAND and VIRGINIA Chincoteague Bay									
1919	Assateague Beach, Toms Cove	37° 52.0'	75° 22.0'	+0 35	+0 48	*1.08	*1.25	3.60	4.28	2.00
1921	Harbor of Refuge	37° 54.2'	75° 24.4'	+0 31	+0 35	*0.73	*0.88	2.43	2.89	1.35
1923	Chincoteague Channel (south end)	37° 54.4'	75° 24.3'	+0 39	+0 47	*0.64	*0.69	2.16	2.57	1.19
1925	Wishart Point, Bogues Bay	37° 52.9'	75° 29.5'	+0 52	+1 13	*0.77	*0.63	2.60	3.09	1.40
1927	Chincoteague Island, USCG Station	37° 55.9'	75° 23.0'	+0 56	+1 11	*0.48	*0.56	1.59	1.89	0.89
1929	Chincoteague Island, Lewis Creek	37° 56.3'	75° 22.4'	+1 17	+1 38	*0.40	*0.63	1.32	1.57	0.76
1931	Chincoteague Island, Oyster Bay	37° 56.5'	75° 20.8'	+1 44	+2 05	*0.46	*0.56	1.54	1.83	0.86
1933	Chincoteague Island, Blake Cove	37° 57.1'	75° 21.3'	+1 51	+2 32	*0.28	*0.56	0.89	1.06	0.53
1935	Jesters Island	37° 58.9'	75° 18.1'	+2 32	+3 24	*0.24	*0.24	0.76	0.90	0.48
1937	Franklin City	38° 00.4'	75° 23.0'	+2 20	+3 00	*0.22	*0.63	0.66	0.79	0.43
1939	Public Landing	38° 08.9'	75° 17.1'	+4 41	+5 21	*0.18	*0.18	0.53	0.63	0.36
1941	Buntings Bridge	38° 08.3'	75° 11.0'	+4 25	+4 56	*0.20	*0.69	0.61	0.82	0.41
1943	South Point, Sinepuxent Neck	38° 12.9'	75° 11.5'	+5 16	+5 02	*0.16	*0.16	0.46	0.54	0.33
	VIRGINIA Outer Coast									
1945	Wallops Island	37° 50.5'	75° 28.7'	+0 04	-0 04	*1.06	*0.31	3.67	4.37	1.89
1947	Gargathy Neck	37° 46.6'	75° 33.7'	+1 31	+1 27	*0.88	*0.63	3.01	3.58	1.60
1949	Metompkin Inlet	37° 40.3'	75° 35.7'	+1 01	+0 44	*1.08	*1.25	3.60	4.28	2.00

Endnotes can be found at the end of table 2.

TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Spring	
				High Water	Low Water	High Water	Low Water			
	VIRGINIA Outer Coast-cont. Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft
				on Ocean City, p.104						
1951	Folly Creek, Metompkin Inlet	37° 41.8'	75° 38.1'	+1 24	+1 12	*0.97	*0.63	3.30	3.93	1.80
1953	Wachapreague, Wachapreague Channel	37° 36.4'	75° 41.2'	+1 10	+0 56	*1.19	*1.06	4.02	4.85	2.18
1955	Revel Creek, Revel Island	37° 29.8'	75° 41.0'	+0 35	+0 27	*1.19	*1.00	4.04	4.81	2.18
1957	Great Machipongo Inlet (inside)	37° 23.6'	75° 42.8'	+1 05	+0 56	*1.16	*1.25	3.86	4.59	2.10
1959	Upshur Neck, south end	37° 28.0'	75° 48.0'	+1 09	+1 14	*1.31	*1.25	4.40	5.24	2.40
1961	Sand Shoal Inlet (Coast Guard Station)	37° 18.1'	75° 46.7'	+0 32	+0 17	*1.18	*1.00	4.00	4.76	2.16
1963	Oyster Harbor	37° 17.3'	75° 55.5'	+1 00	+0 36	*1.34	*1.13	4.52	5.38	2.40
1965	Smith Island (Coast Guard Station)	37° 07.4'	75° 54.7'	+0 52	+1 29	*1.05	*1.25	3.50	4.17	1.90
	Chesapeake Bay, Eastern Shore			on Ches. Bay Bridge Tunnel, p.116						
1967	Fishermans Island	37° 05.8'	75° 58.9'	+0 02	+0 11	*1.19	*1.25	3.02	3.62	1.71
1969	Kiptopeke Beach	37° 10.0'	75° 59.3'	+0 23	+0 32	*1.01	*0.92	2.60	3.09	1.41
1971	Old Plantation Light	37° 14'	76° 03'	+0 33	+0 52	*0.92	*0.83	2.4	2.9	1.3
1973	Cape Charles Harbor	37° 15.8'	76° 00.9'	+0 45	+1 03	*0.90	*0.92	2.3	2.8	1.3
1975	Gaskins Point, Occohannock Creek	37° 33.3'	75° 55.2'	+2 35	+3 13	*0.66	*0.83	1.70	2.00	0.94
1977	Harborton, Pungoteague Creek	37° 40.0'	75° 50.0'	+3 11	+3 33	*0.70	*0.83	1.76	2.11	0.98
1979	Onancock, Onancock Creek	37° 42.7'	75° 45.4'	+3 55	+4 19	*0.71	*0.83	1.80	2.16	1.00
1981	Chesconessex Creek, Schooner Bay	37° 45.8'	75° 46.4'	+3 41	+3 59	*0.78	*1.25	1.94	2.33	1.12
1983	Watts Island	37° 47.9'	75° 53.8'	+4 02	+4 12	*0.64	*0.83	1.60	1.92	0.90
1985	Tangier Island	37° 49.7'	75° 59.6'	+3 58	+4 16	*0.60	*0.75	1.41	1.69	0.80
1987	Muddy Creek Entrance	37° 51.3'	75° 40.5'	+4 14	+4 51	*0.86	*0.83	2.20	2.64	1.20
1989	Guard Shore	37° 51.0'	75° 42.0'	+4 06	+4 47	*0.90	*0.83	2.30	2.76	1.27
1991	Saxis, Starling Creek, Pocomoke Sound	37° 55.3'	75° 43.7'	+3 52	+4 36	*0.89	*1.17	2.24	2.69	1.26
	MARYLAND Chesapeake Bay, Eastern Shore									
1993	Ape Hole Creek, Pocomoke Sound	37° 57.7'	75° 49.3'	+4 27	+4 58	*0.90	*0.83	2.30	2.80	1.20
	<i>Pocomoke River</i>									
1995	Shelldown	37° 58.8'	75° 38.3'	+4 32	+5 16	*0.94	*1.00	2.40	2.90	1.30
1997	Snow Hill, city park	38° 10.7'	75° 23.8'	+7 26	+7 36	*0.70	*1.33	1.62	1.96	0.98
1999	Crisfield, Little Annemessex River	37° 58.6'	75° 51.8'	+4 34	+4 51	*0.75	*1.00	1.86	2.23	1.05
2001	Colburn Creek, Big Annemessex River	38° 02.9'	75° 48.2'	+4 59	+5 30	*0.78	*1.17	1.94	2.33	1.11
2003	Long Point, Big Annemessex River	38° 03.4'	75° 48.2'	+5 19	+5 47	*0.82	*0.83	2.10	2.50	1.10
2005	Teague Creek, Manokin River	38° 06.5'	75° 50.3'	+5 38	+6 05	*0.82	*0.83	2.10	2.50	1.10
2007	Ewell, Smith Island	37° 59.7'	76° 01.9'	+4 56	+5 19	*0.61	*1.00	1.53	1.84	0.88
2009	Holland Island Bar Light	38° 04.1'	76° 05.8'	+5 16	+5 30	*0.56	*0.58	1.40	1.70	0.80
2011	Chance	38° 10.2'	75° 56.8'	+5 29	+5 57	*0.78	*1.17	1.94	2.33	1.11
2013	Sharkfin Shoal Light	38° 12.1'	75° 59.2'	+5 46	+6 06	*0.86	*0.92	2.20	2.64	1.20
2015	Great Shoals Light, Monie Bay	38° 13.0'	75° 53.0'	+6 00	+6 22	*0.90	*0.92	2.30	2.80	1.30
	<i>Wicomico River</i>									
2017	Whitehaven	38° 16.0'	75° 47.0'	+6 26	+6 46	*0.94	*1.00	2.40	2.90	1.30
2019	Salisbury	38° 22.0'	75° 36.0'	+7 21	+7 24	*1.20	*1.25	3.00	3.60	1.70
	<i>Nanticoke River</i>									
2021	Roaring Point	38° 15.7'	75° 55.2'	+6 00	+6 35	*0.90	*0.92	2.30	2.76	1.30
2023	Vienna	38° 29.0'	75° 49.1'	+8 25	+8 32	*0.79	*1.33	1.94	2.33	1.13
2025	Sharptown	38° 32.5'	75° 43.4'	+9 19	+9 28	*0.97	*1.00	2.50	3.00	1.40
2027	McCreeley's Creek, Fishing Bay	38° 18.0'	76° 00.4'	+5 49	+6 22	*0.82	*1.17	2.05	2.46	1.16
2029	Hooper Strait Light	38° 13.6'	76° 04.6'	+5 26	+5 51	*0.61	*1.17	1.48	1.77	0.88
2031	Bishops Head, Hooper Strait	38° 13.2'	76° 02.3'	+5 32	+6 04	*0.70	*1.08	1.73	2.08	0.99
				on Baltimore, p.108						
2033	Middle Hooper Island	38° 17.8'	76° 12.3'	-4 40	-4 39	*1.32	*1.50	1.51	1.71	1.09
2035	Barren Island	38° 20.5'	76° 15.9'	-4 45	-4 56	*1.01	*0.68	1.22	1.38	0.77
	<i>Little Choptank River</i>									
2037	Smithville Road Bridge, Beaverdam Creek	38° 25.7'	76° 14.2'	-2 26	-2 49	*1.01	*0.82	1.19	1.34	0.78
2039	Taylor's Island, Slaughter Creek	38° 28.0'	76° 17.7'	-3 15	-3 00	*1.10	*1.18	1.30	1.47	0.88
2041	Woolford, Church Creek	38° 30.4'	76° 10.4'	-3 11	-2 55	*1.25	*1.41	1.40	1.58	1.00
2043	Cherry Island, Beckwiths Creek	38° 33.7'	76° 12.5'	-3 07	-2 57	*1.18	*1.27	1.34	1.51	0.90
	<i>Choptank River</i>									
2045	Cambridge	38° 34.4'	76° 04.1'	-2 42	-2 28	*1.23	*0.95	1.62	1.83	1.02
2047	Dover Bridge	38° 45.4'	75° 59.9'	-0 18	-0 41	*1.54	*1.68	1.70	1.92	1.24
2049	Hillsboro, Tuckahoe Creek	38° 55.0'	75° 56.7'	+1 29	+1 19	*1.82	*0.86	2.29	2.59	1.33
	<i>Tred Avon River</i>									
2051	Oxford	38° 42.0'	76° 10.4'	-2 50	-2 45	*1.25	*1.41	1.40	1.58	1.00
2053	Easton Point	38° 46.1'	76° 05.9'	-2 45	-2 35	*1.47	*1.59	1.60	1.81	1.20
2055	Deep Neck Point, Broad Creek	38° 43.9'	76° 16.1'	-2 57	-2 47	*1.25	*1.41	1.40	1.58	1.00
2057	St. Michaels, San Domingo Creek	38° 46.5'	76° 14.0'	-2 55	-2 52	*1.25	*1.41	1.40	1.58	1.00
2059	Avalon, Dogwood Harbor	38° 42.5'	76° 19.8'	-2 54	-2 48	*1.18	*1.36	1.30	1.47	0.90
2061	Tilghman Island, Ferry Cove, Eastern Bay	38° 45.9'	76° 19.7'	-2 33	-2 42	*0.98	*1.00	1.10	1.24	0.78
2063	Poplar Island	38° 45.5'	76° 22.6'	-2 33	-2 41	*0.97	*0.95	1.10	1.54	0.77
2065	Claiborne, Eastern Bay	38° 50.2'	76° 16.8'	-2 26	-2 28	*0.96	*1.09	1.10	1.24	0.70
2067	St. Michaels, Miles River	38° 47.2'	76° 13.3'	-2 12	-2 02	*1.22	*1.18	1.40	1.58	0.96
2069	Kent Island Narrows	38° 58.0'	76° 14.6'	-1 30	-1 23	*1.10	*1.18	1.20	1.36	0.90
2071	Matapeake, Kent Island	38° 57.4'	76° 21.3'	-1 30	-1 49	*0.90	*0.95	1.02	1.15	0.72
2073	Kent Point Marina	38° 50.2'	76° 22.4'	-2 21	-2 29	*0.97	*0.95	1.11	1.25	0.76
	<i>Chester River</i>									
2075	Love Point	39° 01.9'	76° 18.1'	-0 25	-0 41	*1.03	*0.95	1.19	1.34	0.84
2077	Queenstown	38° 59.8'	76° 09.5'	+0 05	-0 08	*1.18	*1.27	1.30	1.47	0.90
2079	Centreville Landing, Corsica River	39° 03.2'	76° 04.5'	+0 20	+0 14	*1.47	*1.89	1.60	1.81	1.20
2081	Cliffs Point	39° 06.4'	76° 08.5'	+0 12	-0 02	*1.32	*1.50	1.50	1.70	1.00
2083	Cliffs Wharf	39° 06.7'	76° 08.3'	+0 09	-0 08	*1.33	*1.27	1.53	1.73	1.05

Endnotes can be found at the end of table 2.

TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Spring	
				High Water	Low Water	High Water	Low Water			
		North	West	h	m	h	m	ft	ft	ft
MARYLAND										
Chesapeake Bay, Eastern Shore-cont. Time meridian, 75° W										
<i>Chester River-cont.</i>										
2085	Chestertown	39° 12.4'	76° 03.8'	+1 03	+0 36	*1.62	*1.77	1.80	2.03	1.31
2087	Crumpton	39° 14.7'	75° 55.5'	+1 10	+1 04	*1.82	*0.91	2.28	2.58	1.34
2089	Deep Landing, Swan Creek	39° 08.7'	76° 15.6'	+0 02	-0 04	*0.96	*1.09	1.13	1.28	0.70
2091	Tolchester Beach	39° 12.8'	76° 14.7'	+0 18	+0 11	*1.04	*0.95	1.21	1.35	0.81
2093	Worton Creek entrance	39° 17.8'	76° 10.3'	+1 22	+1 19	*1.18	*1.27	1.30	1.47	0.90
2095	Sassafras River, Betterton	39° 22.3'	76° 03.8'	+2 35	+2 15	*1.34	*1.00	1.60	1.81	1.02
<i>Elk River</i>										
2097	Town Point Wharf	39° 30.2'	75° 55.0'	+3 18	+2 59	*1.74	*0.86	2.17	2.45	1.28
	C & D Canal (see Delaware River)	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
	Chesapeake City, Maryland (see C & D Canal)	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
2099	Old Frenchtown Wharf	39° 34.5'	75° 50.6'	+3 13	+3 00	*2.06	*2.27	2.30	2.60	1.60
2101	Charlestown, Northeast River	39° 34.4'	75° 58.2'	+3 52	+4 03	*1.69	*1.86	1.90	2.15	1.30
Chesapeake Bay, western shore										
<i>Susquehanna River</i>										
2103	Havre de Grace	39° 32.2'	76° 05.4'	+3 13	+3 27	*1.55	*0.95	1.90	2.15	1.16
2105	Port Deposit	39° 36.0'	76° 06.8'	+3 24	+3 49	*1.51	*1.14	1.81	2.04	1.16
2107	Pond Point, Bush River	39° 23.3'	76° 15.3'	+1 52	+1 31	*1.06	*0.86	1.25	1.41	0.81
<i>Patapsco River</i>										
2109	North Point	39° 11.8'	76° 26.8'	+0 12	+0 04	*0.93	*1.09	1.03	1.16	0.75
2111	Stony Creek	39° 09.8'	76° 31.6'	+0 03	-0 05	*0.95	*0.91	1.09	1.23	0.75
2113	Hawkins Point	39° 12.5'	76° 32.0'	+0 00	+0 06	*1.03	*0.95	1.19	1.34	0.80
2115	Curtis Creek, US Coast Guard Station	39° 11.7'	76° 34.6'	+0 12	+0 08	*0.96	*1.14	1.06	1.20	0.78
2117	BALTIMORE, Fort McHenry	39° 16.0'	76° 34.7'	<i>Daily predictions</i>				1.14	1.25	0.79
2119	Fort McHenry Marsh	39° 15.7'	76° 35.1'	-0 01	-0 01	*1.00	*1.00	1.14	1.29	0.78
2121	Mountain Point, Gibson Is., Magothy River	39° 03.7'	76° 26.0'	-0 04	-0 04	*0.74	*0.77	0.80	0.90	0.60
2123	Cornfield Creek, Magothy River	39° 06.0'	76° 26.7'	-0 29	-0 38	*0.89	*0.95	0.99	1.12	0.71
<i>Severn River</i>										
2125	Brewer Point	39° 01.6'	76° 32.0'	-0 45	-0 54	*0.74	*0.91	0.80	0.90	0.60
2127	Annapolis (US Naval Academy)	39° 09.8'	76° 28.8'	-1 30	-1 44	*0.88	*1.00	0.97	1.12	0.71
2129	Thomas Point Shoal Light	38° 54.0'	76° 26.0'	-1 56	-2 11	*0.81	*0.91	0.90	1.02	0.60
2131	Edgewater, South River	38° 57.0'	76° 33.0'	-1 51	-2 07	*0.81	*0.91	0.90	1.02	0.60
2133	Gingerville Creek, South River	38° 57.5'	76° 33.3'	-2 01	-2 06	*0.92	*1.00	1.03	1.16	0.74
2135	Rhode River (County Wharf)	38° 53.2'	76° 32.4'	-2 07	-2 17	*0.88	*1.00	0.98	1.10	0.70
2137	Galesville, West River	38° 50.0'	76° 32.0'	-1 39	-1 34	*0.81	*0.91	0.90	1.01	0.60
2139	Rose Haven, Herring Bay	38° 43.5'	76° 32.5'	-2 37	-2 44	*0.81	*0.91	0.90	1.01	0.60
2141	Chesapeake Beach	38° 41.0'	76° 32.0'	-2 47	-3 05	*0.88	*1.00	1.00	1.13	0.70
2143	Long Beach	38° 27.9'	76° 28.4'	-3 47	-4 04	*0.87	*0.77	1.01	1.14	0.67
2145	Cove Point	38° 23.5'	76° 23.9'	-4 10	-4 25	*0.83	*0.83	1.04	1.18	0.61
<i>Patuxent River</i>										
2147	Solomons Island	38° 19.0'	76° 27.1'	-4 38	-4 46	*0.98	*0.73	1.17	1.34	0.74
2149	Broomes Island	38° 24.9'	76° 32.7'	-4 13	-4 19	*1.18	*1.36	1.30	1.47	0.94
2151	Benedict	38° 30.8'	76° 40.2'	-3 54	-3 54	*1.47	*1.82	1.60	1.81	0.81
2153	Lower Marlboro	38° 39.3'	76° 41.0'	-2 46	-2 54	*1.47	*0.77	1.82	2.06	1.09
2155	Point Lookout	38° 02.4'	76° 1.4'	-5 28	-5 37	*1.02	*0.77	1.22	1.38	0.78
MD., VA. and DISTRICT OF COLUMBIA										
Potomac River										
2157	Cornfield Harbor, Md.	38° 03.7'	76° 21.5'	-6 16	-7 35	*0.48	*0.53	1.30	1.43	0.76
2159	Lewisetta, Va.	37° 59.7'	76° 27.9'	-6 19	-7 31	*0.46	*0.80	1.25	1.42	0.74
2161	Travis Point, Coan River, Va.	37° 59.8'	76° 28.0'	-6 00	-7 05	*0.44	*0.67	1.20	1.32	0.70
2163	Kinsale, Yeocomico River, Va.	38° 01.9'	76° 34.6'	-5 46	-6 53	*0.44	*0.67	1.20	1.32	0.70
2165	Piney Point, Md.	38° 08.0'	76° 32.0'	-5 54	-7 16	*0.51	*0.60	1.40	1.54	0.80
2167	Ragged Point, Coles Neck, Va.	38° 08.5'	76° 36.8'	-5 35	-7 03	*0.54	*0.67	1.50	1.65	0.85
2169	Mount Holly, Nomini Creek, Va.	38° 05.9'	76° 44.1'	-4 51	-6 14	*0.54	*0.67	1.50	1.65	0.80
2171	Colton Point, Md.	38° 13.2'	76° 45.0'	-5 18	-6 43	*0.65	*0.73	1.80	1.98	1.03
2173	Mills Point (south of), Wicomico Riv., Md.	38° 19.6'	76° 50.0'	-5 05	-6 05	*0.65	*0.73	1.80	1.98	1.00
2175	Colonial Beach, Va.	38° 15.1'	76° 57.6'	-5 08	-6 13	*0.61	*0.93	1.63	1.79	0.96
2177	Dahlgren, Upper Machodoc Creek, Va.	38° 19.2'	77° 02.2'	-4 53	-5 59	*0.56	*0.93	1.58	1.87	0.93
2179	Lower Cedar Point, Md.	38° 20.5'	76° 58.6'	-4 48	-5 56	*0.54	*0.60	1.50	1.65	0.80
2181	Mathias Point, Va.	38° 23.9'	77° 03.2'	-4 00	-4 56	*0.44	*0.67	1.20	1.32	0.70
2183	Goose Creek, Port Tobacco River, Md.	38° 27.2'	77° 03.3'	-4 08	-5 07	*0.54	*0.60	1.46	1.61	0.82
2185	Riverside, Md.	38° 23.2'	77° 08.7'	-3 23	-4 24	*0.48	*0.53	1.28	1.41	0.78
2187	Aquia Creek, Va.	38° 25.1'	77° 21.2'	-1 28	-2 32	*0.48	*0.67	1.26	1.39	0.71
2189	Clifton Beach, Smith Point, Md.	38° 24.8'	77° 16.0'	-1 42	-2 46	*0.41	*0.67	1.10	1.21	0.60
2191	Liverpool Point, Md.	38° 27.6'	77° 16.2'	-0 39	-1 58	*0.44	*0.67	1.20	1.32	0.70
2193	Quantico, Va.	38° 31.2'	77° 17.2'	-0 52	-2 04	*0.51	*0.67	1.40	1.54	0.80
2195	Indian Head, Md.	38° 36.1'	77° 11.1'	-0 14	-1 33	*0.65	*0.73	1.80	1.98	1.03
2197	Marshall Hall, Md.	38° 41.2'	77° 06.1'	+0 10	-0 55	*0.82	*0.93	2.30	2.53	1.27
2199	Alexandria, Va.	38° 48.3'	77° 02.3'	+0 18	-0 11	*0.96	*1.33	2.62	2.88	1.51
2201	Bellevue, D.C.	38° 49.6'	77° 01.6'	+0 34	-0 11	*1.02	*1.33	2.80	3.08	1.60
2203	WASHINGTON, Washington Channel, D.C.	38° 52.3'	77° 01.2'	<i>Daily predictions</i>				2.77	3.07	1.55
<i>Anacostia River</i>										
2205	Washington Naval Yard	38° 52.3'	76° 59.7'	+0 18	-0 06	*1.01	*1.20	2.80	3.08	1.57
2207	Kingman Lake	38° 53.7'	76° 58.1'	+0 22	+0 04	*1.03	*1.20	2.84	3.12	1.60
2209	Kenilworth Aquatic Garden	38° 54.6'	76° 57.3'	+0 29	+0 10	*1.05	*1.07	2.92	3.21	1.62
2211	Bladensburg, Md.	38° 56.0'	76° 56.3'	+0 31	+0 25	*1.06	*1.13	2.95	3.25	1.64

Endnotes can be found at the end of table 2.

TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Spring	
				High Water	Low Water	High Water	Low Water			
	VIRGINIA Chesapeake Bay, western shore Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft
				on Ches. Bay Bridge Tunnel, p.116						
2213	Sunnybank, Little Wicomico River	37° 53.2'	76° 16.0'	+6 41	+6 45	*0.30	*0.30	0.80	0.96	0.40
2215	Great Wicomico River Light	37° 48.3'	76° 16.1'	+3 58	+4 11	*0.41	*0.41	1.10	1.32	0.50
2217	Fleeton Point	37° 48.8'	76° 16.5'	+3 58	+4 14	*0.41	*0.41	1.10	1.32	0.59
2219	Glebe Point, Great Wicomico River	37° 50.8'	76° 22.1'	+4 15	+4 37	*0.49	*0.83	1.20	1.44	0.70
2221	Windmill Point Light	37° 35.8'	76° 14.2'	+2 48	+3 12	*0.41	*0.41	1.10	1.32	0.50
				on Hampton Roads, p.120						
2223	<i>Rappahannock River</i> Windmill Point	37° 36.9'	76° 17.4'	+1 55	+2 14	*0.49	*0.83	1.16	1.40	0.68
2225	Mill Creek (Grey Point)	37° 35.0'	76° 25.1'	+2 28	+2 42	*0.55	*0.83	1.30	1.57	0.69
2227	Millenbeck, Corrotoman River	37° 40.1'	76° 29.2'	+2 37	+3 05	*0.55	*0.83	1.30	1.57	0.70
2229	Urbanna	37° 39.0'	76° 34.5'	+2 50	+3 09	*0.59	*0.83	1.40	1.69	0.79
2231	Bayport	37° 45.3'	76° 40.4'	+3 22	+3 51	*0.67	*0.83	1.60	1.94	0.90
2233	Wares Wharf	37° 52.4'	76° 47.0'	+4 04	+4 34	*0.75	*0.33	1.88	2.27	0.98
2235	Tappahannock	37° 55.8'	76° 51.4'	+4 40	+5 18	*0.71	*0.83	1.74	2.11	0.95
				on Washington, p.112						
2237	Saunders Wharf	38° 05.4'	77° 02.0'	-3 53	-4 41	*0.54	*0.66	1.50	1.65	0.85
2239	Port Royal	38° 10.4'	77° 11.4'	-2 19	-3 02	*0.68	*0.67	1.90	2.09	1.10
2241	Park Turn	38° 12.8'	77° 14.6'	-1 35	-2 30	*0.73	*0.20	2.13	2.34	1.09
2243	Hopyard Landing	38° 14.6'	77° 13.6'	-1 07	-1 57	*0.75	*0.67	2.10	2.31	1.19
2245	Massaponax Sand & Gravel	38° 15.3'	77° 24.6'	-0 39	-0 41	*0.88	*1.33	2.50	2.75	1.39
				on Hampton Roads, p.120						
2247	<i>Piankatank River</i> Jackson Creek, Deltaville	37° 32.9'	76° 19.9'	+1 36	+2 04	*0.51	*0.83	1.20	1.45	0.70
2249	Dixie	37° 30.5'	76° 25.0'	+1 34	+2 14	*0.55	*0.83	1.30	1.57	0.72
2251	Wolf Trap Light	37° 23.4'	76° 11.4'	-0 02	+0 32	*0.67	*0.83	1.60	1.94	0.90
	<i>Mobjack Bay</i>									
2253	Mobjack, East River	37° 22.4'	76° 20.8'	-0 17	+0 02	*0.98	*0.83	2.40	2.90	1.30
2255	Belleville	37° 24.7'	76° 26.3'	-0 06	+0 00	*1.02	*0.83	2.48	3.00	1.36
2257	Browns Bay	37° 18.1'	76° 24.2'	-0 11	-0 03	*0.98	*1.58	2.32	2.81	1.35
	York River									
2259	Tue Marshes Light	37° 14.1'	76° 23.1'	+0 03	+0 03	*0.90	*0.83	2.17	2.63	1.19
2261	Yorktown, Goodwin Neck	37° 13.4'	76° 26.4'	+0 18	+0 15	*0.90	*0.83	2.20	2.66	1.23
2263	Yorktown, USCG Training Center	37° 13.6'	76° 28.7'	+0 10	+0 15	*0.95	*1.08	2.29	2.77	1.28
2265	Gloucester Point	37° 14.8'	76° 30.0'	+0 10	+0 11	*0.98	*1.00	2.38	2.93	1.30
2267	Cheatham Annex	37° 17.5'	76° 35.2'	+0 48	+0 40	*1.02	*0.83	2.50	3.03	1.34
2269	Roane Point	37° 26.9'	76° 42.4'	+1 47	+1 50	*1.14	*0.83	2.81	3.40	1.54
2271	West Point	37° 32.1'	76° 47.6'	+2 12	+2 38	*1.14	*0.83	2.80	3.39	1.50
2273	Wakema (Fraziers Ferry), Mattaponi River	37° 39.0'	76° 54.0'	+3 34	+3 57	*1.41	*1.67	3.42	4.14	1.90
	<i>Pamunkey River</i>									
2275	Lester Manor	37° 35.0'	76° 59.4'	+4 45	+5 00	*1.05	*0.83	2.80	3.39	1.50
2277	Northbury	37° 37.5'	77° 07.3'	+6 03	+6 18	*1.37	*1.67	3.30	4.01	1.80
	Chesapeake Bay, western shore									
2279	Messick Point, Back River	37° 06.5'	76° 19.1'	-0 07	+0 02	*0.97	*0.97	2.30	2.78	1.33
	<i>Hampton Roads</i>									
2281	Old Point Comfort	37° 00.2'	76° 18.9'	+0 01	+0 09	*1.02	*0.83	2.52	3.05	1.38
2283	HAMPTON ROADS (Sewells Point)	36° 56.8'	76° 19.8'					2.43	2.95	1.34
	<i>Elizabeth River</i>									
2285	Craney Island Light	36° 53.5'	76° 20.3'	+0 18	+0 04	*1.06	*0.83	2.60	3.15	1.40
2287	Lafayette River	36° 53.0'	76° 16.5'	+0 06	+0 10	*1.10	*1.17	2.67	3.14	1.47
2289	Western Branch, Rt 337 bridge	36° 49.3'	76° 23.9'	+0 11	+0 13	*1.14	*1.17	2.77	3.26	1.53
2291	Norfolk	36° 51.1'	76° 17.9'	+0 23	+0 20	*1.14	*0.83	2.82	3.41	1.50
2293	Portsmouth, Naval Shipyard	36° 49.3'	76° 17.6'	+0 08	+0 10	*1.13	*1.17	2.76	3.26	1.52
2295	Money Point	36° 46.7'	76° 18.1'	+0 15	+0 12	*1.18	*1.17	2.86	3.46	1.57
2297	Deep Creek Entrance	36° 45.3'	76° 17.6'	+0 22	+0 18	*1.21	*1.25	2.92	3.53	1.61
	<i>Nansemond River</i>									
2299	Pig Point	36° 55.0'	76° 26.1'	+0 42	+0 40	*1.05	*0.83	2.80	3.39	1.50
2301	Town Point	36° 53.0'	76° 30.5'	+0 37	+0 44	*1.22	*0.83	3.00	3.63	1.60
2303	Hollidays Point (Kings Highway bridge)	36° 50.3'	76° 33.0'	+0 56	+1 03	*1.25	*1.67	3.00	3.63	1.63
	James River									
2305	Newport News	36° 58.4'	76° 26.0'	+0 29	+0 28	*1.08	*0.83	2.60	3.15	1.40
2307	Huntington Park	37° 00.8'	76° 27.5'	+0 38	+0 39	*1.07	*0.92	2.62	3.17	1.42
2309	Menchville	37° 04.9'	76° 31.5'	+1 03	+1 19	*1.06	*0.83	2.60	3.15	1.40
2311	Smithfield, Pagan River	36° 59.1'	76° 37.8'	+1 34	+1 38	*1.14	*0.83	2.78	3.36	1.50
2313	Burwell Bay	37° 03.4'	76° 40.1'	+1 17	+1 39	*1.00	*1.17	2.42	2.93	1.35
2315	Fort Eustis	37° 08.2'	76° 37.3'	+1 44	+1 51	*0.92	*1.25	2.19	2.52	1.25
2317	Kingsmill	37° 13.2'	76° 39.8'	+2 05	+2 26	*0.94	*1.33	2.26	2.73	1.29
2319	Scotland	37° 11.1'	76° 47.0'	+2 44	+3 13	*0.78	*1.08	1.84	2.22	1.06
2321	Jamestown Wharf	37° 13.2'	76° 47.4'	+2 59	+3 15	*0.78	*1.42	1.81	2.09	1.08
	<i>Chickahominy River</i>									
2323	Ferry Point (bridge)	37° 15.8'	76° 52.7'	+4 01	+4 26	*0.78	*0.83	1.90	2.30	1.04
2325	Wright Island Landing	37° 20.7'	76° 52.5'	+4 44	+5 03	*0.90	*0.83	2.20	2.66	1.20
2327	Lanexa	37° 24.2'	76° 54.7'	+5 00	+4 51	*1.05	*1.08	2.56	2.77	1.41
2329	Claremont	37° 13.9'	76° 56.9'	+3 51	+4 25	*0.76	*1.17	1.79	2.11	1.06
2331	Tettington	37° 14.4'	76° 56.6'	+3 52	+4 17	*0.79	*1.13	1.87	2.26	1.07

Endnotes can be found at the end of table 2.

TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level		
		Latitude	Longitude	Time		Height		Mean	Spring			
				High Water	Low Water	High Water	Low Water					
	VIRGINIA James River-cont. Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft		
				on Hampton Roads, p.120								
2333	Sturgeon Point	37° 18.4'	77° 00.4'	+4	37	+5	09	*0.86	*0.83	2.10	2.54	1.10
2335	Willcox Wharf, Charles City	37° 19.0'	77° 05.9'	+5	30	+5	33	*0.89	*1.33	2.12	2.52	1.22
2337	Jordan Point	37° 18.8'	77° 13.4'	+6	16	+6	39	*1.02	*0.83	2.50	3.02	1.40
				on Washington, p.112								
2339	City Point, Hopewell	37° 18.8'	77° 16.2'	-4	31	-5	36	*0.87	*0.80	2.45	2.58	1.35
2341	Puddledock, Appomattox River	37° 16.0'	77° 22.3'	-3	49	-4	32	*1.00	*1.07	2.80	3.08	1.55
2343	Haxall	37° 22.4'	77° 14.6'	-4	10	-4	53	*0.99	*1.33	2.70	2.97	1.60
2345	Chester	37° 23.0'	77° 22.7'	-3	39	-3	59	*1.02	*0.67	2.90	3.19	1.60
2347	Meadowville	37° 22.7'	77° 19.4'	-3	46	-4	17	*1.05	*1.33	2.90	3.19	1.60
2349	Richmond Deepwater Terminal	37° 27.5'	77° 25.2'	-3	39	-3	51	*1.08	*0.93	3.05	3.25	1.66
2351	Richmond (river locks)	37° 31.5'	77° 25.2'	-3	16	-3	26	*1.16	*1.33	3.20	3.52	1.80
	Chesapeake Bay, southern shore			on Ches. Bay Bridge Tunnel, p.116								
2353	Little Creek, NAB	36° 54.7'	76° 10.5'	+0	08	+0	09	*1.01	*1.17	2.57	3.08	1.42
2355	CHESAPEAKE BAY BRIDGE TUNNEL	36° 58.0'	76° 06.8'					<i>Daily predictions</i>		2.55	3.07	1.40
2357	Lynnhaven Inlet, Virginia Pilots Dock <i>Lynnhaven Bay</i>	36° 54.4'	76° 05.4'	+0	40	+0	38	*0.88	*1.08	2.22	2.66	1.24
2359	Bayville	36° 53.6'	76° 06.3'	+1	52	+2	48	*0.67	*0.83	1.70	2.04	1.00
2361	Buchanan Creek entrance	36° 51.7'	76° 06.9'	+2	02	+2	56	*0.75	*0.83	1.90	2.28	1.00
2363	Brown Cove	36° 52.5'	76° 03.7'	+2	05	+2	43	*0.65	*0.83	1.64	1.96	0.92
2365	Broad Bay Canal	36° 54.1'	76° 03.7'	+2	05	+2	00	*0.56	*0.92	1.38	1.66	0.80
2367	Long Creek	36° 54.2'	76° 04.2'	+1	15	+1	15	*0.68	*1.08	1.68	2.02	0.97
	Outer Coast			on Duck Pier, p.124								
2369	Cape Henry	36° 55.8'	76° 00.4'	+0	31	+0	36	*0.96	*0.93	3.12	3.71	1.68
2371	Virginia Beach	36° 50.6'	75° 58.3'	+0	15	+0	16	*1.07	*1.07	3.34	3.97	1.85
2373	Rudee Inlet entrance	36° 49.9'	75° 58.1'	+0	02	+0	02	*1.01	*0.86	3.28	3.90	1.77
2375	Rudee Inlet, interior channel	36° 49.9'	75° 58.4'	+0	17	+0	17	*1.02	*0.94	3.29	3.92	1.78
2377	Rudee Heights, Lake Wesley	36° 49.5'	75° 58.5'	+0	18	+0	16	*1.03	*1.00	3.32	3.95	1.81
2379	Lake Rudee, south end	36° 49.5'	75° 58.9'	+0	20	+0	19	*1.05	*1.07	3.39	4.03	1.85
2381	Sandbridge	36° 41.5'	75° 55.2'	+0	07	+0	07	*1.04	*1.04	3.35	3.99	1.85
	NORTH CAROLINA			on Oregon Inlet, p.128								
2383	DUCK PIER	36° 11.0'	75° 44.8'					<i>Daily predictions</i>		3.22	3.96	1.75
2385	Albemarle and Pamlico Sounds <9>	-	-	-	-	-	-	-	-	-	-	-
2387	Kitty Hawk (ocean)	36° 06.1'	75° 42.6'	-0	01	+0	02	*1.01	*1.43	3.19	3.80	1.80
2389	Jennettes Pier, Nags Head (ocean)	35° 54.6'	75° 35.5'	-0	05	+0	01	*1.04	*1.43	3.26	3.88	1.80
				on Cape Hatteras, p.132								
2391	Roanoke Sound Channel	35° 48'	75° 35'	+1	37	+1	17	*0.47	*0.14	0.5	0.6	0.3
2393	OREGON INLET MARINA	35° 47.7'	75° 32.9'					<i>Daily predictions</i>		0.89	1.08	0.58
2395	Oregon Inlet	35° 46'	75° 31'	-0	03	-0	27	*1.98	*0.71	2.0	2.4	1.1
2397	Oregon Inlet (USCG Station)	35° 46.1'	75° 31.6'	-0	22	-0	51	*2.00	*0.69	1.97	2.30	1.07
2399	Oregon Inlet Bridge	35° 46.4'	75° 32.3'	-0	17	-0	55	*1.89	*0.64	1.9	2.3	1.1
2401	Oregon Inlet Channel	35° 46.5'	75° 33.5'	-0	09	-0	34	*1.23	*0.43	1.2	1.4	0.7
2403	Old House Channel	35° 46.5'	75° 34.9'	+0	34	+0	28	*0.66	*0.21	0.7	0.8	0.4
2405	Davis Slough	35° 44.9'	75° 33.2'	+0	09	-0	01	*0.85	*0.29	0.9	1.1	0.5
2407	Rodanthe, Pamlico Sound	35° 35.7'	75° 28.3'	+2	03	+1	36	*0.79	*0.69	0.72	0.84	0.45
2409	Roanoke Marshes Light, Croatan Sound	35° 48.7'	75° 42.0'	+2	10	+2	04	*0.50	*0.85	0.40	0.59	0.31
2411	Oyster Creek, Croatan Sound	35° 50.7'	75° 39.3'	+2	12	+2	06	*0.51	*0.77	0.41	0.60	0.31
2413	Manns Harbor, Croatan Sound	35° 54.2'	75° 46.2'	+2	31	+2	26	*0.37	*0.54	0.37	0.40	0.23
				on Cape Hatteras, p.132								
2415	Cape Hatteras	35° 14'	75° 31'	+0	01	+0	01	*1.00	*1.08	3.6	4.3	2.0
2417	CAPE HATTERAS FISHING PIER	35° 13.4'	75° 38.1'					<i>Daily predictions</i>		2.99	3.60	1.61
2419	Peters Ditch, Avon, Pamlico Sound	35° 21.0'	75° 30.7'	+3	20	+3	40	*0.17	*0.17	0.43	0.61	0.30
2421	Hatteras, Pamlico Sound	35° 12.3'	75° 42.2'	+1	16	+1	25	*0.17	*1.08	0.41	0.49	0.33
2423	Hatteras Inlet	35° 12'	75° 44'	+0	08	+0	13	*0.66	*0.83	2.0	2.4	1.1
2425	Ocracoke Inlet	35° 04'	76° 01'	+0	09	+0	11	*0.63	*0.83	1.9	2.3	1.0
2427	Ocracoke, Ocracoke Island	35° 06.9'	75° 59.3'	+0	15	+0	47	*0.34	*0.50	0.99	1.19	0.56
2429	Cape Lookout Bight	34° 36.8'	76° 32.3'	-0	17	-0	12	*1.35	*1.33	4.05	4.86	2.19
2431	Cape Lookout (ocean)	34° 36.5'	76° 31.7'	-0	22	-0	22	*1.15	*1.25	3.44	4.13	1.87
2433	Shell Point, Harkers Island	34° 41'	76° 32'	+1	52	+2	34	*0.54	*0.83	1.6	1.8	0.9
2435	Harkers Island Bridge	34° 43'	76° 35'	+2	08	+2	31	*0.52	*0.67	1.6	1.7	0.9
2437	Davis, Core Sound	34° 47.8'	76° 27.3'	+3	13	+3	39	*0.38	*0.75	1.08	1.23	0.64
2439	Channel Marker Lt. 59	34° 42'	76° 37'	+1	25	+1	27	*0.66	*0.83	2.0	2.3	1.1
2441	Lenoxville Point	34° 42.5'	76° 37.2'	+1	18	+1	11	*0.80	*1.00	2.37	2.84	1.31
2443	North River Bridge	34° 47'	76° 37'	+2	25	+3	08	*0.59	*0.67	1.8	2.0	1.0
2445	Beaufort Inlet Channel Range	34° 42'	76° 40'	+0	07	+0	11	*1.07	*1.07	3.2	3.8	1.6
2447	Beaufort, Taylor Creek	34° 42.7'	76° 38.7'	+0	52	+0	48	*0.95	*1.17	2.82	3.38	1.55
2449	Beaufort, Duke Marine Lab	34° 43.2'	76° 40.2'	+0	39	+0	36	*1.05	*1.17	3.11	3.58	1.70
2451	Gallant Channel	34° 44'	76° 40'	+0	49	+0	44	*1.01	*1.25	3.0	3.5	1.7
2453	Newport River (Yacht Club)	34° 46.1'	76° 40.3'	+1	03	+1	13	*1.03	*1.00	3.08	3.70	1.66
2455	Core Creek Bridge	34° 50'	76° 42'	+1	26	+1	46	*0.68	*0.83	2.1	2.3	1.1
2457	Fort Macon, USCG Station	34° 42'	76° 41'	+0	17	+0	18	*1.03	*1.25	3.1	3.7	1.7
2459	Morehead City	34° 43'	76° 42'	+0	26	+0	27	*1.04	*1.25	3.1	3.7	1.7
2461	Morehead City Harbor	34° 43.2'	76° 43.7'	+0	35	+0	37	*1.04	*1.17	3.08	3.70	1.68

Endnotes can be found at the end of table 2.

TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Spring	
				High Water	Low Water	High Water	Low Water			
	NORTH CAROLINA Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft
				on Cape Hatteras, p.132						
2463	Atlantic Beach	34° 41.6'	76° 42.7'	-0 02	+0 01	*1.23	*1.25	3.65	4.38	1.98
2465	Triple S Marina, Bogue Sd.	34° 41.7'	76° 42.7'	+0 35	+0 28	*0.93	*1.17	2.8	3.3	1.5
2467	Atlantic Beach Bridge	34° 43'	76° 44'	+0 48	+1 02	*0.79	*0.83	2.4	2.8	1.2
2469	N.C. State Fisheries	34° 43'	76° 45'	+1 05	+1 32	*0.66	*0.83	2.0	2.3	1.1
2471	Coral Bay, Atlantic Beach	34° 42'	76° 46'	+1 47	+2 14	*0.53	*0.83	1.6	1.8	0.9
2473	Spooner Creek	34° 43.5'	76° 48.2'	+2 06	+2 20	*0.56	*1.08	1.27	1.85	0.94
2475	Bogue Inlet	34° 39'	77° 06'	+0 13	+0 15	*0.73	*0.83	2.2	2.6	1.2
2477	New River Inlet	34° 32'	77° 20'	+0 16	+0 17	*0.98	*0.83	3.0	3.6	1.6
2479	Ocean City Beach (fishing pier)	34° 27.1'	77° 29.7'	+0 03	-0 01	*1.40	*1.33	4.20	5.04	2.25
2481	Wrightsville Beach	34° 12.8'	77° 47.2'	+0 18	+0 23	*1.27	*1.25	3.80	4.56	2.05
2483	Wilmington Beach	34° 01.9'	77° 53.6'	+0 18	+0 10	*1.40	*1.25	4.21	5.05	2.26
2485	Cape Fear	33° 51'	77° 58'	+0 04	+0 07	*1.47	*1.33	4.5	5.1	2.3
				on Wilmington, p.136						
	<i>Cape Fear River</i>									
2487	Bald Head	33° 52.8'	78° 00.1'	-2 06	-2 43	*1.05	*1.13	4.49	4.89	2.41
2489	Fort Caswell	33° 54'	78° 01'	-2 02	-2 45	*1.03	*1.25	4.2	4.8	2.3
2491	Southport	33° 54.9'	78° 01.1'	-1 49	-2 22	*0.99	*1.00	4.24	4.62	2.28
2493	Zekes Island	33° 57.0'	77° 57.1'	-1 12	-1 43	*0.96	*1.07	4.09	4.46	2.20
2495	Federal Point	33° 57.7'	77° 56.4'	-1 17	-1 52	*0.94	*0.93	4.04	4.40	2.16
2497	Sunny Point Army Base, Wharf no.1	33° 59.4'	77° 57.4'	-1 03	-1 45	*0.95	*0.93	4.06	4.43	2.17
2499	Reaves Point	34° 00.2'	77° 57.3'	-0 54	-1 18	*0.96	*1.07	4.09	4.46	2.21
2501	Sunny Point Army Base, Wharf no.3	34° 01.4'	77° 56.8'	-0 57	-1 15	*0.97	*1.07	4.15	4.52	2.24
2503	Orton Point	34° 03.4'	77° 56.4'	-0 36	-0 58	*0.98	*1.00	4.17	4.55	2.24
2505	WILMINGTON	34° 13.6'	77° 57.2'			<i>Daily predictions</i>		4.28	4.70	2.29
2507	Castle Hayne, Northeast River	34° 21'	77° 56'	+2 44	+2 54	*0.42	*0.42	1.7	1.9	0.9
2509	Bannermans Branch, Northeast River	34° 35'	77° 46'	+5 58	+6 08	*0.32	*0.31	1.3	1.4	0.6
				on Myrtle Beach, p.140						
2511	Oak Island	33° 54.1'	78° 04.9'	-0 05	-0 05	*0.94	*0.84	4.72	5.57	2.53
2513	Lockwoods Folly Inlet	33° 55'	78° 14'	+0 04	+0 15	*0.84	*1.00	4.2	4.8	2.3
2515	Shalotte Inlet (Bowen Point)	33° 55'	78° 22'	+0 43	+0 55	*0.91	*1.00	4.6	5.4	2.5
2517	Sunset Beach Pier	33° 51.9'	78° 30.4'	+0 02	-0 03	*0.97	*1.11	4.82	5.78	2.62
2519	Sunset Beach Bridge	33° 52.9'	78° 30.6'	+0 34	+0 56	*0.94	*0.84	4.72	5.57	2.52
	SOUTH CAROLINA									
2521	Dunn Sound, Little River Inlet	33° 51.5'	78° 34.2'	+0 15	+0 41	*0.91	*0.80	4.64	5.52	2.48
2523	Dunn Sound, north end	33° 51.6'	78° 34.8'	+0 25	+0 40	*0.93	*0.84	4.67	5.51	2.50
2525	Dunn Sound, west end	33° 51.1'	78° 35.3'	+0 29	+0 36	*0.96	*1.00	4.85	5.58	2.63
2527	Little River Neck, north end	33° 52.2'	78° 34.4'	+0 32	+0 46	*0.92	*0.84	4.63	5.56	2.47
2529	Cherry Grove (inside)	33° 50.1'	78° 38.0'	+0 40	+0 44	*0.92	*0.74	4.67	5.51	2.47
2531	Hog Inlet Pier	33° 50.2'	78° 36.4'	-0 06	-0 07	*0.99	*0.90	5.0	5.7	2.7
2533	MYRTLE BEACH, SPRINGMAID PIER	33° 39.3'	78° 55.1'			<i>Daily predictions</i>		5.02	6.00	2.70
2535	Garden City Pier (ocean)	33° 34.5'	78° 59.8'	+0 00	+0 00	*1.00	*1.00	5.07	5.88	2.74
	<i>Murrells Inlet</i>									
2537	Garden City Bridge, Main Creek	33° 34.7'	79° 00.2'	+1 19	+2 09	*0.84	*0.68	4.26	5.03	2.25
2539	Divine's Dock	33° 32.5'	79° 01.7'	+0 40	+1 18	*0.84	*0.84	4.22	5.06	2.27
2541	Smith's Dock	33° 32.7'	79° 02.7'	+1 01	+1 36	*0.86	*0.95	4.29	5.06	2.32
2543	Captain Alex's Marina, Parsonage Creek	33° 33.1'	79° 02.2'	+0 57	+1 28	*0.85	*0.68	4.30	5.16	2.28
2545	Oaks Creek, 0.5 mi. above entrance	33° 31.8'	79° 02.6'	+0 38	+1 03	*0.85	*0.95	4.27	5.12	2.32
2547	Allston Creek	33° 31.9'	79° 03.2'	+0 52	+1 32	*0.84	*0.95	4.24	4.92	2.31
2549	Oaks Creek, upper end	33° 30.7'	79° 04.1'	+1 10	+1 43	*0.87	*1.05	4.35	5.22	2.37
2551	Litchfield Beach bridge	33° 28.3'	79° 06.1'	+1 10	+3 02	*0.58	*0.75	2.89	3.35	1.59
2553	Midway Inlet North, Pawleys Island	33° 26.9'	79° 06.7'	+0 16	+0 42	*0.87	*1.00	4.40	5.10	2.40
2555	Bennet's Dock, Pawleys Island Creek	33° 26.1'	79° 07.6'	+0 55	+1 35	*0.78	*1.21	3.84	4.61	2.15
2557	Pawleys Island Pier (ocean)	33° 25.9'	79° 07.0'	+0 06	+0 06	*0.98	*0.95	4.92	5.81	2.65
2559	Ward's Dock, Pawleys Inlet	33° 24.7'	79° 08.1'	+0 35	+2 07	*0.67	*0.95	3.32	3.98	1.84
2561	Oyster Landing, Crab Haul Creek, North Inlet	33° 21.1'	79° 11.2'	+1 08	+0 52	*0.92	*1.00	4.58	5.50	2.48
2563	Clambank Creek, Goat Island, North Inlet	33° 20.0'	79° 11.6'	+1 01	+0 36	*0.94	*1.00	4.69	5.53	2.54
				on Charleston, p.144						
	<i>Intercoastal Waterway</i> <i>Little River Inlet to Winyah Bay</i>									
2565	Little River (town)	33° 52.2'	78° 36.5'	+0 13	+0 39	*0.84	*0.79	4.41	5.07	2.35
2567	Nixon Crossroads	33° 51.3'	78° 38.9'	+0 27	+0 51	*0.78	*0.68	4.10	4.55	2.18
2569	Myrtle Beach Airport	33° 49.2'	78° 43.1'	+1 09	+1 47	*0.56	*0.84	2.88	3.34	1.60
2571	North Myrtle Beach	33° 46.0'	78° 48.9'	+2 15	+3 12	*0.36	*0.84	1.78	2.10	1.25
2573	Myrtle Beach, Combination Bridge	33° 42.8'	78° 55.3'	+2 56	+4 18	*0.35	*0.89	1.71	2.02	1.03
2575	Socastee Bridge	33° 41.2'	79° 00.3'	+3 27	+4 41	*0.41	*0.74	2.08	2.45	1.18
	Winyah Bay									
2577	Winyah Bay Entrance (South Jetty)	33° 11'	79° 09'	-0 21	-0 24	*0.87	*0.89	4.6	5.4	2.5
2579	Georgetown Lighthouse	33° 13.4'	79° 11.1'	+0 26	+0 25	*0.75	*1.05	3.89	4.51	2.15
2581	South Island Plantation (C.G. Station)	33° 14.1'	79° 12.2'	+0 35	+0 36	*0.74	*0.84	3.81	4.38	2.07
2583	South Island Ferry, Intracoastal Waterway	33° 15.1'	79° 16.1'	+0 54	+1 25	*0.71	*0.74	3.69	4.24	1.99
2585	Frazier Point	33° 19'	79° 17'	+1 26	+2 07	*0.66	*0.68	3.5	4.1	1.8
	<i>Sampit River</i>									
2587	Georgetown	33° 21.7'	79° 16.8'	+1 25	+2 09	*0.71	*0.79	3.72	4.32	2.01
2589	Jacobs Wharf	33° 21.8'	79° 21.3'	+2 15	+2 22	*0.73	*0.74	3.84	4.45	2.06
2591	Cumberland	33° 22.2'	79° 26.0'	+2 42	+2 29	*0.77	*0.74	4.02	4.74	2.15

Endnotes can be found at the end of table 2.

TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Spring	
				High Water	Low Water	High Water	Low Water			
	SOUTH CAROLINA Winyah Bay-cont. Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft
				on Charleston, p.144						
	<i>Great Pee Dee River</i>									
2593	Windsor Plantation, Black River	33° 24.9'	79° 15.0'	+2 00	+2 45	*0.66	*0.74	3.45	3.97	1.86
2595	Black River (south of Dunbar)	33° 30.7'	79° 20.5'	+3 29	+4 09	*0.47	*0.89	2.42	2.81	1.38
2597	Winea Plantation, Black River	33° 32.1'	79° 23.3'	+4 23	+4 39	*0.47	*0.84	2.37	2.73	1.34
2599	Mt. Pleasant Plantation, Black River	33° 29.7'	79° 27.7'	+5 38	+6 04	*0.37	*1.05	1.82	2.11	1.11
2601	Rhems, Black Mingo Creek, Black River	33° 36.2'	79° 25.6'	+6 00	+6 13	*0.36	*1.05	1.75	2.03	1.08
2603	Weymouth Plantation	33° 27.3'	79° 12.3'	+2 16	+3 02	*0.68	*0.89	3.56	4.13	1.95
2605	Carr Creek, 1 mile above entrance	33° 27.9'	79° 11.2'	+2 13	+3 00	*0.69	*0.84	3.62	4.20	1.97
2607	South of Sam Worth Game Management Area	33° 28.1'	79° 11.3'	+2 21	+3 06	*0.69	*0.68	3.66	4.25	1.96
2609	Arundel Plantation	33° 29.0'	79° 10.7'	+2 38	+3 39	*0.53	*0.79	2.75	3.19	1.53
2611	Holly Grove Plantation	33° 33.1'	79° 10.6'	+3 20	+4 12	*0.50	*0.68	2.59	3.00	1.43
2613	Lower Topsaw Landing	33° 36.5'	79° 09.1'	+4 48	+5 20	*0.20	*0.53	0.96	1.13	0.58
2615	Yauhannah Bridge	33° 39.6'	79° 09.3'	+4 33	+5 24	*0.33	*0.68	1.66	1.91	0.96
	<i>Waccamaw River</i>									
2617	Entrance	33° 22.0'	79° 15.3'	+1 19	+2 11	*0.69	*0.58	3.60	4.14	1.91
2619	Hagley Landing	33° 26.1'	79° 10.9'	+1 58	+2 53	*0.67	*0.79	3.47	3.99	1.88
2621	Thoroughfare Creek entrance	33° 30.4'	79° 08.8'	+2 32	+3 15	*0.64	*0.89	3.34	3.94	1.84
2623	Wachesaw Landing	33° 33.6'	79° 05.1'	+3 11	+4 00	*0.53	*0.84	2.74	3.18	1.53
2625	Bull Creek entrance	33° 35.8'	79° 05.9'	+3 36	+4 22	*0.48	*0.79	2.46	2.85	1.38
2627	Little Bull Creek entrance, Bull Creek	33° 36.1'	79° 07.1'	+3 59	+4 43	*0.46	*0.84	2.35	2.73	1.33
2629	Bucksport	33° 38.8'	79° 05.7'	+4 23	+4 53	*0.43	*0.89	2.16	2.48	1.25
2631	Enterprise Landing	33° 40'	79° 04'	+5 01	+5 35	*0.38	*0.37	2.0	2.4	1.1
2633	Keysfield	33° 44.7'	79° 03.9'	+6 09	+6 20	*0.28	*0.89	1.37	1.59	0.85
2635	Pitch Landing	33° 48.0'	79° 03.3'	+7 25	+7 30	*0.20	*0.74	0.94	1.09	0.61
2637	Conway, RR. bridge	33° 50.1'	79° 02.5'	+7 19	+7 28	*0.25	*0.74	1.24	1.44	0.76
2639	Grahamville	33° 49.8'	78° 57.2'	+8 17	+8 32	*0.20	*0.58	0.97	1.13	0.60
2641	North Santee River Inlet	33° 08'	79° 15'	-0 09	+0 04	*0.85	*0.84	4.5	5.3	2.3
2643	Cedar Island, North Santee Bay	33° 08.4'	79° 14.7'	-0 03	+0 17	*0.80	*0.95	4.19	4.86	2.28
2645	Minim Creek ent., ICWW, North Santee Bay	33° 11.7'	79° 16.5'	+0 16	+1 00	*0.77	*0.95	3.98	4.70	2.18
2647	North Santee Bridge	33° 12.6'	79° 23.1'	+1 09	+1 54	*0.72	*0.74	3.8	4.2	2.0
2649	Cedar Island Point, South Santee River	33° 07.2'	79° 16.2'	-0 16	+0 08	*0.78	*0.79	4.1	4.8	2.1
2651	Brown Island, South Santee River	33° 09'	79° 20'	+0 27	+1 31	*0.78	*0.79	4.1	4.8	2.1
2653	U.S. Highway 17 bridge, South Santee River	33° 11.1'	79° 24.4'	+0 43	+1 43	*0.78	*0.95	4.07	4.68	2.20
2655	Pleasant Hill Landing, Santee River	33° 14.7'	79° 31.3'	+2 28	+3 47	*0.45	*0.74	2.30	2.71	1.29
2657	Jamestown Bridge, Santee River	33° 18.3'	79° 40.7'	+4 15	+6 30	*0.22	*0.37	1.12	1.29	0.63
2659	Cape Romain	33° 01'	79° 21'	-0 22	-0 17	*0.89	*0.89	4.7	5.5	2.5
2661	Cape Romain, 46 miles east of	33° 06'	78° 26'	-1 05	-1 13	*0.78	*0.79	4.1	4.8	2.1
2663	Casino Creek, ICWW	33° 06.5'	79° 23.6'	+0 40	+0 53	*0.87	*0.79	4.55	5.37	2.42
	<i>Bulls Bay</i>									
2665	Five Fathom Creek entrance	33° 00'	79° 30'	-0 06	-0 07	*0.93	*0.95	4.9	5.8	2.6
2667	McClellanville, Jeremy Creek	33° 04.7'	79° 27.6'	+0 31	+0 24	*0.93	*0.89	4.86	5.59	2.60
2669	Harbor River entrance	33° 02.0'	79° 32.1'	+0 03	+0 36	*0.93	*0.95	4.9	5.8	2.6
2671	Buck Hall, Awendaw Creek	33° 02.4'	79° 33.6'	+0 22	+0 37	*0.95	*1.00	4.97	5.77	2.67
2673	Jack Creek entrance	32° 56'	79° 35'	-0 14	-0 15	*0.95	*0.95	5.0	5.9	2.7
2675	Wharf Creek entrance	32° 55'	79° 37'	+0 12	-0 08	*0.97	*0.95	5.1	6.0	2.7
2677	Moore's Landing, ICWW, Sewee Bay	32° 56.2'	79° 39.3'	+0 11	+0 08	*0.96	*1.00	5.04	5.85	2.71
2679	Price Creek, North Capers Island	32° 52.9'	79° 39.5'	-0 01	-0 21	*0.92	*0.89	4.80	5.52	2.57
2681	Old Capers Landing, Santee Pass, Capers Island	32° 52.2'	79° 41.2'	+0 21	-0 09	*0.94	*0.84	4.93	5.67	2.62
2683	North Dewees Island, Capers Inlet	32° 51.0'	79° 42.2'	-0 02	-0 11	*0.91	*0.95	4.76	5.62	2.56
2685	Capers Creek, South Capers Island	32° 51.4'	79° 42.4'	+0 04	-0 15	*0.94	*0.95	4.89	5.62	2.63
2687	South Dewees Island, Dewees Inlet	32° 50.0'	79° 43.6'	-0 01	-0 17	*0.94	*0.89	4.93	5.67	2.63
2689	Hamlin Sound	32° 49.6'	79° 47.2'	+0 13	-0 13	*0.99	*1.00	5.19	5.97	2.78
2691	Isle of Palms Pier	32° 47.0'	79° 47.1'	-0 25	-0 28	*0.95	*0.89	4.94	5.68	2.65
2693	Hamlin Creek, Isle of Palms	32° 47.2'	79° 47.5'	+0 06	-0 12	*0.97	*1.00	5.04	5.80	2.71
2695	Breach Inlet, Isle of Palms	32° 46.6'	79° 48.7'	-0 05	-0 14	*0.95	*1.05	4.94	5.68	2.66
2697	Sullivans Island (outer coast)	32° 46'	79° 50'	-0 08	-0 12	*0.99	*1.00	5.2	6.1	2.8
2699	Ben Sawyer Bridge, ICWW	32° 46.4'	79° 50.5'	+0 06	-0 12	*0.97	*1.00	5.05	5.81	2.71
	<i>Charleston Harbor</i>									
2701	Fort Sumter	32° 45.2'	79° 52.6'	+0 02	-0 01	*0.97	*0.95	5.09	5.90	2.72
2703	The Cove, Fort Moultrie	32° 45.8'	79° 51.4'	-0 01	-0 10	*0.97	*0.95	5.08	5.84	2.72
2705	Fort Johnson	32° 45.1'	79° 53.9'	-0 05	-0 02	*0.97	*1.00	5.09	5.90	2.74
2707	Shem Creek	32° 47.6'	79° 52.9'	-0 02	-0 03	*0.99	*1.00	5.20	6.03	2.79
2709	CHARLESTON (Customhouse Wharf)	32° 46.9'	79° 55.5'			<i>Daily predictions</i>		5.22	6.15	2.80
2711	Shipyard Creek, 0.8 mile above entrance.	32° 50'	79° 57'	+0 34	+0 20	*1.01	*1.00	5.3	6.1	2.8
	<i>Cooper River</i>									
2713	Clouter Creek, south entrance	32° 51.6'	79° 56.3'	+0 25	+0 19	*1.02	*1.00	5.35	6.31	2.87
2715	Goose Creek entrance	32° 54.6'	79° 57.1'	+0 42	+0 33	*1.04	*1.00	5.41	6.22	2.90
2717	Yeamans Hall, Goose Creek	32° 55.5'	79° 59.2'	+2 06	+1 31	*1.00	*1.37	5.14	6.07	2.84
2719	Hanahan, Turkey Creek, Goose Creek	32° 55.1'	80° 00.7'	+2 51	+2 13	*0.90	*0.79	4.70	5.55	2.50
2721	Clouter Creek, north entrance	32° 54.4'	79° 56.1'	+0 45	+0 33	*1.04	*1.00	5.43	6.41	2.91
2723	Snow Point, 0.4 mi. North of	32° 56.9'	79° 55.9'	+0 59	+0 45	*1.02	*1.05	5.31	6.10	2.86
2725	General Dynamics Pier	33° 00.5'	79° 55.4'	+1 40	+1 24	*0.84	*1.11	4.35	5.03	2.39
2727	Dupont, Dean Hall	33° 03.5'	79° 56.2'	+2 21	+2 07	*0.68	*1.58	3.43	3.98	2.01
2729	Bonneau Ferry, East Branch	33° 04.3'	79° 53.0'	+3 14	+2 49	*0.63	*1.79	3.11	3.61	1.90
2731	Blessing Plantation, East Branch	33° 03.3'	79° 52.8'	+3 24	+3 20	*0.56	*1.32	2.79	3.29	1.64
2733	Richmond Plantation, East Branch	33° 04.6'	79° 51.3'	+3 43	+3 43	*0.54	*1.37	2.67	3.07	1.59
2735	Quinby Creek bridge, East Branch	33° 05.7'	79° 48.5'	+4 37	+4 12	*0.56	*1.42	2.75	3.25	1.65
2737	Huger Landing, East Branch	33° 07.8'	79° 48.7'	+4 46	---	---	---	---	---	---
2739	Old Rice Mill, West Branch	33° 04.7'	79° 55.5'	+2 56	+2 51	*0.53	*1.63	2.60	3.02	1.61
2741	Back River Reservoir, West Branch	32° 59.7'	79° 56.2'	+5 44	+5 57	*0.17	*0.79	0.78	0.90	0.54
2743	Pimlico, West Branch	33° 05.7'	79° 57.2'	+3 19	+3 53	*0.34	*0.89	1.69	1.94	1.01

Endnotes can be found at the end of table 2.

TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Spring	
				High Water	Low Water	High Water	Low Water			
	SOUTH CAROLINA Charleston Harbor-cont. Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft
				on Charleston, p.144						
	<i>Wando River</i>									
2745	Hobcaw Point	32° 49.3'	79° 54.0'	+0 19	+0 13	*1.03	*0.95	5.39	6.20	2.88
2747	Parker Island, Horlbeck Creek	32° 53.1'	79° 50.7'	+0 43	+0 27	*1.09	*1.11	5.70	6.73	3.06
2749	Nowell Creek	32° 54.0'	79° 54.0'	+0 47	+0 23	*1.13	*1.05	5.91	6.80	3.16
2751	Cainhoy	32° 55.6'	79° 49.8'	+0 49	+0 31	*1.15	*1.00	6.02	6.92	3.20
2753	Big Paradise Island	32° 54.9'	79° 44.8'	+1 24	+0 52	*1.24	*1.11	6.48	7.45	3.45
2755	Woodville	32° 55.2'	79° 44.0'	+2 07	+1 22	*1.19	*1.19	6.3	7.3	3.4
	<i>Ashley River</i>									
2757	James Island Creek, 1 mi. above ent.	32° 44.7'	79° 56.9'	+0 17	+0 07	*1.02	*1.05	5.36	6.22	2.88
2759	Wappoo Creek, highway bridge	32° 46.0'	79° 58.4'	+0 22	+0 22	*0.99	*0.99	5.2	6.0	2.8
2761	South Ashley Bridge	32° 47.0'	79° 57.4'	+0 04	+0 07	*1.01	*1.05	5.34	6.19	2.87
2763	Duck Island	32° 49.8'	79° 58.0'	+0 23	+0 17	*1.06	*1.06	5.6	6.5	3.0
2765	Cosgrove Bridge	32° 50.1'	79° 59.2'	+0 25	+0 17	*1.07	*1.05	5.57	6.57	2.99
2767	I-526 bridge	32° 50.2'	80° 01.3'	+0 30	+0 29	*1.08	*1.11	5.68	6.53	3.05
2769	Drayton, Bee's Ferry	32° 50.9'	80° 03.1'	+0 41	+0 39	*1.09	*1.05	5.69	6.54	3.05
2771	Magnolia Gardens	32° 52.6'	80° 04.9'	+1 02	+0 54	*1.10	*1.05	5.79	6.72	3.10
2773	Greggs Landing, Mateeba Gardens	32° 55.7'	80° 09.3'	+2 06	+1 42	*1.15	*1.16	6.06	7.03	3.25
2775	Bacon Bridge	32° 57.5'	80° 12.2'	+2 45	+3 41	*0.39	*0.16	2.10	2.48	1.08
	Outer Coast									
2777	Secessionville, Secessionville Creek	32° 42.4'	79° 56.2'	+0 22	---	---	---	--	--	--
2779	Folly Island (outer coast)	32° 39'	79° 56'	-0 08	-0 14	*0.98	*1.00	5.2	6.1	2.8
2781	Folly River Bridge, Folly Island	32° 39.7'	79° 56.7'	+0 21	-0 03	*1.01	*0.95	5.27	6.06	2.22
2783	Folly Creek, Hwy. 171 bridge	32° 40.5'	79° 57.1'	+0 25	-0 06	*1.04	*1.00	5.41	6.22	2.89
2785	Folly River, north, Folly Island	32° 40.2'	79° 55.0'	+0 24	-0 05	*1.03	*0.95	5.38	6.19	2.87
	<i>Stono River</i>									
2787	Snake Island	32° 38.4'	80° 00.9'	+0 01	-0 12	*1.01	*1.00	5.27	6.06	2.83
2789	Abbapoola Creek entrance	32° 40.6'	80° 00.4'	+0 17	+0 02	*1.01	*0.95	5.36	6.22	2.86
2791	Elliott Cut entrance	32° 45.8'	80° 00.1'	+0 48	+0 52	*0.99	*1.16	5.14	5.91	2.79
2793	Pennys Creek, west entrance	32° 46.1'	80° 04.2'	+1 23	+1 20	*1.03	*1.32	5.32	6.12	2.91
2795	Sandblasters, Pennys Creek	32° 46.2'	80° 03.8'	+1 30	+1 18	*1.02	*1.02	5.26	6.21	2.91
2797	Limehouse Bridge	32° 47.2'	80° 06.3'	+1 43	+1 34	*1.08	*1.08	5.58	6.58	3.04
2799	Church Flats	32° 44.8'	80° 09.9'	+1 51	+1 14	*1.22	*1.16	6.37	7.33	3.41
2801	Kiawah River Bridge	32° 36.2'	80° 07.9'	+0 14	+0 06	*1.07	*0.89	5.60	6.44	2.97
	<i>North Edisto River</i>									
2803	Ocella Creek, 2 mi. above entrance	32° 33.7'	80° 14.3'	+0 32	+0 09	*1.08	*1.08	5.7	6.6	3.0
2805	Rockville, Bohicket Creek	32° 35.9'	80° 11.7'	+0 19	+0 07	*1.09	*1.11	5.76	6.68	3.09
2807	Ho-Non-Wah Boy Scout Camp, Bohicket Creek	32° 37.5'	80° 10.0'	+0 49	+0 30	*1.13	*1.11	5.93	6.82	3.17
2809	Oak Branch, Bohicket Creek	32° 41.0'	80° 05.8'	+1 39	+0 57	*1.26	*1.16	6.66	7.73	3.55
2811	Point of Pines	32° 35.1'	80° 13.7'	+0 15	+0 11	*1.08	*1.05	5.66	6.51	3.04
2813	Leadenwah Creek, 3 mi. above entrance	32° 38.2'	80° 12.1'	+0 54	+0 23	*1.15	*1.11	5.99	6.89	3.21
2815	Steamboat Landing, Steamboat Creek	32° 36.2'	80° 17.2'	+0 45	+0 25	*1.15	*1.11	6.02	6.92	3.22
2817	Windsor Plantation, Russel Creek	32° 35.9'	80° 20.7'	+1 16	+0 35	*1.21	*1.11	6.40	7.42	3.41
2819	Dawho Bridge, Dawho River	32° 38.2'	80° 20.5'	+0 56	+0 47	*1.18	*1.11	6.17	7.10	3.29
2821	Park Island, Tom Point Creek	32° 39.9'	80° 19.0'	+1 19	+0 34	*1.21	*1.21	6.40	7.42	3.43
2823	Toogoodoo Creek, 2 mi. above entrance	32° 40.1'	80° 17.6'	+1 06	+0 38	*1.21	*1.05	6.36	7.31	3.38
2825	Lower Toogoodoo Creek, 2 mi. above entrance	32° 42.2'	80° 16.7'	+1 26	+0 47	*1.29	*1.26	6.73	7.94	3.61
	<i>Wadmalaw River</i>									
2827	Bluff Point	32° 38.8'	80° 15.4'	+0 58	+0 31	*1.17	*1.11	6.13	7.05	3.28
2829	Yonges Island	32° 41.7'	80° 13.4'	+1 22	+0 45	*1.24	*1.16	6.50	7.48	3.47
2831	Johns Island, Church Creek	32° 42.4'	80° 09.4'	+1 43	+1 00	*1.30	*1.16	6.85	7.88	3.64
2833	Church Creek bridge	32° 42.9'	80° 05.5'	+1 58	+0 58	*1.30	*1.00	6.93	8.04	3.66
	on Savannah River Ent., p.148									
2835	Edisto Beach, Edisto Island	32° 30.1'	80° 17.8'	-0 21	-0 29	*0.84	*0.95	5.75	6.61	3.08
	<i>South Edisto River</i>									
2837	Edisto Marina, Big Bay Creek entrance	32° 29.6'	80° 20.4'	-0 06	-0 13	*0.86	*0.91	5.96	6.85	3.18
2839	Carters Dock, Big Bay Creek	32° 29.6'	80° 19.6'	+0 08	-0 07	*0.87	*0.91	5.97	6.87	3.18
2841	Scott Creek, 0.5 mi. above ent., Big Bay Creek	32° 30.1'	80° 19.1'	+0 29	---	---	---	--	--	--
2843	Peters Point, St. Pierre Creek	32° 32.4'	80° 20.4'	+0 22	+0 09	*0.88	*0.95	6.09	7.00	3.25
2845	Fenwick Island	32° 33.6'	80° 25.1'	+0 15	+0 25	*0.90	*1.09	6.19	7.12	3.32
2847	Pine Landing	32° 36.2'	80° 23.3'	+0 29	+0 45	*0.92	*0.95	6.29	7.30	3.36
2849	Dawho River	32° 39.4'	80° 23.5'	+1 07	+1 31	*0.89	*0.95	6.15	7.07	3.29
2851	Willtown Bluff, Edisto River	32° 40.9'	80° 25.0'	+1 34	+2 03	*0.83	*1.00	5.69	6.54	3.06
2853	Hope Creek, Edisto River	32° 42.0'	80° 25.6'	+1 46	+2 13	*0.82	*1.05	5.62	6.46	3.04
2855	Penny Creek, south of, Edisto River	32° 42.9'	80° 26.2'	+2 10	+2 43	*0.73	*1.18	4.97	5.72	2.75
2857	Jacksonboro Camp	32° 45.2'	80° 27.0'	+2 46	+3 34	*0.59	*0.86	4.04	4.65	2.21
2859	Canaday Landing, south of, Edisto River	32° 48.8'	80° 24.4'	+4 20	+5 34	*0.13	*0.32	0.84	0.97	0.49
2861	Hart Bluff, Edisto River <24>	32° 55.6'	80° 23.9'	---	---	---	---	--	--	--
	St. Helena Sound									
2863	Otter Island	32° 28.6'	80° 25.2'	+0 04	+0 07	*0.87	*0.95	6.01	6.91	3.21
2865	Johnson Creek Bridge, Hunting Island	32° 23.5'	80° 26.3'	+0 03	+0 03	*0.85	*0.86	5.88	6.76	3.13
2867	Harbor River Bridge	32° 24.2'	80° 27.2'	+0 03	-0 06	*0.88	*0.95	6.09	7.00	3.25
	<i>Ashepoo River</i>									
2869	Seabrook	32° 31.4'	80° 24.4'	+0 11	+0 18	*0.90	*0.91	6.2	7.3	3.3
2871	Ashepoo-Coosaw Cutoff, ICWW	32° 31.5'	80° 27.1'	+0 15	+0 23	*0.90	*0.91	6.20	7.19	3.30
2873	Musselboro Island, Mosquito Creek	32° 34.7'	80° 26.9'	+1 21	+0 57	*0.90	*0.91	6.22	7.15	3.31
2875	Hutchinson Island	32° 33.1'	80° 28.9'	+0 31	+0 44	*0.87	*0.91	6.01	6.97	3.20
2877	Bluff Islands	32° 34.7'	80° 29.6'	+0 46	+1 04	*0.84	*0.91	5.79	6.72	3.10

Endnotes can be found at the end of table 2.

TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Spring	
				High Water	Low Water	High Water	Low Water			
	SOUTH CAROLINA St. Helena Sound-cont. Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft
	on Savannah River Ent., p.148									
	<i>Ashepool River-cont.</i>									
2879	Brickyard Ferry, swing bridge	32° 36.8'	80° 28.9'	+1 27	+1 34	*0.71	*0.86	4.82	5.59	2.60
2881	Airy Hall Plantation	32° 37.9'	80° 28.3'	+1 57	+1 59	*0.60	*1.00	4.16	4.71	2.25
2883	Ashepool	32° 44.6'	80° 33.4'	+4 18	+4 00	*0.34	*1.05	2.18	2.53	1.32
	<i>Morgan River</i>									
2885	Village Creek Entrance	32° 26.7'	80° 30.2'	+0 17	+0 07	*0.93	*1.00	6.35	7.37	3.40
2887	Village Creek Cemetery	32° 25.0'	80° 31.2'	+0 36	+0 15	*0.94	*0.95	6.45	7.48	3.43
2889	Edding Point, Edding Creek	32° 26.8'	80° 32.0'	+0 31	+0 14	*0.93	*0.95	6.41	7.37	3.42
2891	Jenkins Creek, 1 mi. above entrance	32° 26.4'	80° 33.2'	+0 41	+0 17	*0.98	*0.95	6.80	7.82	3.61
2893	Jenkins Creek, Polawana Island	32° 25.2'	80° 34.6'	+0 55	+0 27	*1.01	*1.05	6.91	8.02	3.69
2895	Lucy Point Creek entrance	32° 27.1'	80° 36.6'	+0 53	+0 33	*0.90	*0.88	6.32	7.33	3.21
	<i>Combahee River</i>									
2897	Bowles Island, New Chehaw River	32° 33.9'	80° 31.0'	+1 02	+0 42	*0.96	*1.00	6.59	7.64	3.51
2899	Wiggins, Chehaw River	32° 36.1'	80° 32.5'	+1 45	+1 20	*0.88	*1.18	6.03	6.93	3.28
2901	Fields Point	32° 34.0'	80° 33.7'	+0 42	+0 52	*0.91	*0.91	6.2	7.3	3.3
2903	Railroad Bridge	32° 35.4'	80° 37.8'	+1 37	---	---	---	---	---	---
2905	U.S. 17 Bridge	32° 39.1'	80° 41.0'	+3 00	+2 29	*0.71	*1.14	4.83	5.55	2.66
2907	Bluff Plantation	32° 41.0'	80° 44.3'	+4 17	+3 51	*0.50	*1.59	3.12	3.59	1.95
2909	Cuckolds Creek	32° 42.8'	80° 41.7'	+4 45	+4 12	*0.51	*1.73	3.26	3.81	2.01
	<i>Coosaw River</i>									
2911	Summerhouse Point, Bull River	32° 31.6'	80° 34.4'	+0 55	+0 37	*0.96	*0.95	6.58	7.63	3.50
2913	Briars Creek ent., Wimbee Creek, Bull River	32° 34.7'	80° 40.2'	+2 06	+1 24	*0.93	*0.95	6.39	7.35	3.41
2915	Sams Point, Lucy Point Creek	32° 29.0'	80° 35.9'	+0 55	+0 45	*0.97	*0.91	6.71	7.78	3.55
2917	Brickyard Point, Brickyard Creek	32° 29.6'	80° 41.1'	+1 27	+1 19	*1.08	*0.95	7.45	8.64	3.94
2919	Whale Branch entrance	32° 31.5'	80° 40.5'	+1 27	+1 20	*1.06	*0.95	7.32	8.49	3.87
2921	Lobeco, Whale Branch	32° 34.4'	80° 44.7'	+1 40	+1 28	*1.11	*0.95	7.75	8.91	4.08
2923	Sheldon, Huspa Creek, Whale Branch	32° 35.0'	80° 47.0'	+2 11	+1 52	*1.16	*0.77	8.07	9.28	4.21
2925	Fripps Inlet, Hunting Island Bridge	32° 20.4'	80° 27.9'	-0 10	-0 22	*0.88	*0.91	6.10	7.02	3.25
	Port Royal Sound									
2927	Capers Island, Trenchards Inlet	32° 16.4'	80° 35.1'	-0 01	-0 18	*0.93	*0.95	6.37	7.39	3.39
2929	Club Bridge Creek ent., Trenchards Inlet	32° 20.1'	80° 32.5'	+0 15	-0 24	*0.99	*1.00	6.78	7.86	3.61
2931	Port Royal Plantation, Hilton Head Island	32° 13.2'	80° 40.1'	+0 01	-0 11	*0.88	*1.00	6.10	7.02	3.27
2933	The Folly, Hilton Head Island	32° 11.4'	80° 42.1'	+0 03	---	---	---	---	---	---
2935	Station Creek, west end	32° 16.8'	80° 38.3'	+0 16	+0 13	*0.96	*0.91	6.62	7.68	3.51
2937	Station Creek, County Landing	32° 19.5'	80° 36.1'	+0 27	-0 16	*0.99	*1.00	6.84	7.87	3.64
	<i>Beaufort River</i>									
2939	Fort Fremont	32° 18.4'	80° 38.7'	+0 19	+0 17	*0.95	*0.64	6.63	7.69	3.45
2941	Parris Island, Marine Corps Recruit Depot	32° 21.0'	80° 40.1'	+0 37	+0 26	*1.02	*0.91	7.02	8.14	3.71
2943	Distant Island, Cowen Creek	32° 22.7'	80° 38.0'	+0 43	+0 27	*1.06	*1.05	7.29	8.46	3.87
2945	Distant Island Creek, upper end, Cowen Creek	32° 24.1'	80° 39.2'	+1 00	+1 08	*0.98	*0.36	6.92	7.96	3.54
2947	Capers Creek, Cowen Creek, St. Helena Island	32° 22.3'	80° 36.3'	+0 58	+0 34	*1.08	*0.95	7.44	8.63	3.93
2949	Cowen Creek, Rt. 21 bridge	32° 23.9'	80° 37.0'	+0 55	+0 58	*1.00	*0.55	6.97	8.09	3.61
2951	Battery Creek, 4 mi. above entrance	32° 24.8'	80° 42.0'	+1 14	+0 37	*1.10	*0.91	7.64	8.79	4.02
2953	Beaufort	32° 25.8'	80° 40.5'	+1 09	+0 51	*1.07	*0.95	7.39	8.17	3.90
2955	Marine Corps Air Station, Brickyard Creek	32° 27.9'	80° 41.5'	+1 27	+1 11	*1.10	*0.95	7.62	8.84	4.02
2957	Albergottie Creek, Rt. 21 bridge	32° 27.0'	80° 43.9'	+1 48	+2 02	*0.98	*0.45	6.83	7.92	3.52
2959	Skull Creek, north entrance, Hilton Head Island	32° 16.0'	80° 44.2'	+0 15	+0 16	*0.99	*0.91	6.83	7.85	3.62
2961	Skull Creek, south entrance, Hilton Head Island	32° 13.4'	80° 46.3'	+0 34	+0 23	*1.05	*1.05	7.28	8.37	3.87
2963	Pinckney Island, Mackay Creek, Chechessee River	32° 15.6'	80° 46.0'	+0 36	+0 25	*1.04	*0.91	7.21	8.36	3.80
2965	Colleton River Entrance	32° 19.3'	80° 47.5'	+0 49	+0 37	*1.05	*1.05	7.2	8.4	3.8
2967	Callawassie Creek, Colleton River	32° 19.0'	80° 50.5'	+1 15	+0 53	*1.13	*1.14	7.8	9.1	4.1
2969	Callawassie Island, south, Colleton River	32° 18.8'	80° 51.6'	+1 09	+0 40	*1.19	*1.11	7.7	9.0	4.1
2971	Callawassie Island Bridge, Colleton River	32° 20.5'	80° 51.4'	+1 12	+0 49	*1.13	*1.14	7.8	9.1	4.2
2973	Baileys Landing, Okatee River, Colleton River	32° 20.8'	80° 53.4'	+1 25	+0 57	*1.17	*1.05	8.09	9.30	4.28
2975	Chechessee Bluff, Chechessee River	32° 22.4'	80° 50.2'	+1 06	+0 48	*1.10	*1.00	7.62	8.84	4.03
	<i>Broad River</i>									
2977	Hwy. 170 bridge	32° 23.2'	80° 46.6'	+0 51	+0 45	*1.06	*0.91	7.35	8.45	3.88
2979	Broughton Point, Hazzard Creek	32° 24.6'	80° 53.1'	+1 34	+1 30	*1.10	*0.82	7.61	8.83	3.99
2981	Euhaw Creek, 2.5 mi. above entrance	32° 26.1'	80° 51.1'	+1 33	+1 09	*1.14	*0.91	7.92	9.19	4.16
2983	Salvesbarg Landing, West Branch Boyds Creek	32° 28.5'	80° 51.0'	+1 29	---	---	---	---	---	---
2985	Pilot Island, West Branch Boyds Creek	32° 30.3'	80° 51.8'	+1 50	+1 24	*1.15	*0.91	7.98	9.26	4.19
2987	Corning Landing, Whale Branch	32° 30.0'	80° 47.1'	+1 37	+1 25	*1.15	*0.77	8.00	9.28	4.17
2989	RR. Bridge, Hall Island	32° 31.3'	80° 50.3'	+1 39	+1 24	*1.17	*1.05	8.08	9.37	4.27
2991	Pocotaligo River, 4 mi. above entrance	32° 35.7'	80° 49.9'	+2 21	+1 48	---	---	---	---	---
2993	North Dawson Landing, Coosawhatchie River	32° 33.7'	80° 54.6'	+2 34	+2 10	*1.12	*1.14	7.71	8.94	4.10
2995	Tulifiny River, I-95 bridge	32° 36.1'	80° 54.2'	+3 24	+3 31	*0.73	*0.73	5.01	5.81	2.66
	Calibogue Sound									
2997	Braddock Point, Hilton Head Island	32° 06.8'	80° 49.8'	+0 05	-0 02	*0.98	*1.00	6.74	7.82	3.59
2999	Calibogue Cay, Broad Creek, Hilton Head Island	32° 09.2'	80° 47.7'	+0 20	+0 09	*1.04	*1.00	7.13	8.27	3.79
3001	Broad Creek, Hilton Head Island	32° 11.1'	80° 45.2'	+0 33	+0 17	*1.08	*1.05	7.48	8.60	3.97
3003	Haig Point, Daufuskie Island, Cooper River	32° 08.8'	80° 50.2'	+0 20	+0 10	*1.02	*1.00	7.05	8.18	3.74
3005	Bull Creek, Bull Island South, Cooper River	32° 09.9'	80° 51.4'	+0 28	+0 12	*1.05	*1.05	7.23	8.39	3.84
3007	Pine Island, Ramshorn Creek, Cooper River	32° 07.3'	80° 53.9'	+0 34	+0 28	*1.03	*0.91	7.17	8.25	3.78
3009	Savage I., Savage Creek, Bull Creek	32° 11.1'	80° 51.6'	+0 46	+0 19	*1.10	*1.00	7.56	8.77	4.00
	<i>May River</i>									
3011	Moreland Cemetery	32° 10.5'	80° 53.5'	+0 49	+0 23	*1.11	*0.77	7.73	8.97	4.04
3013	Bull Island North	32° 12.0'	80° 48.9'	+0 40	+0 25	*1.09	*1.05	7.52	8.72	3.99
3015	Bluffton	32° 13.8'	80° 51.7'	+1 00	+0 37	*1.16	*1.05	8.01	9.29	4.23
3017	Rose Dew Creek	32° 13.2'	80° 55.2'	+1 19	---	---	---	---	---	---

Endnotes can be found at the end of table 2.

TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Spring	
				High Water	Low Water	High Water	Low Water			
	SOUTH CAROLINA Calibogue Sound-cont. Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft
	<i>New River</i>			on Savannah River Ent., p.148						
3019	Bloody Point, Daufuskie Island	32° 04.9'	80° 52.7'	+0 01	+0 19	*0.98	*0.91	6.77	7.79	3.59
3021	Hargray Pier, Daufuskie Island	32° 05.9'	80° 53.9'	+0 19	+0 27	*1.01	*1.05	6.96	8.07	3.71
3023	Daufuskie Landing, Daufuskie Island	32° 06.2'	80° 53.7'	+0 30	+0 33	*1.01	*0.95	7.02	8.07	3.72
3025	Doughboy Island	32° 08.3'	80° 55.9'	+1 04	+1 06	*1.01	*1.05	6.96	8.07	3.71
3027	Good Hope Landing, south of	32° 10.6'	80° 58.0'	+2 19	+2 06	*0.85	*1.55	5.71	6.62	3.20
3029	Cook Landing Cemetery	32° 11.7'	81° 00.0'	+3 09	+3 00	*0.69	*1.41	4.58	5.31	2.60
3031	Rt. 170 bridge	32° 14.2'	81° 00.7'	+4 12	+3 53	*0.51	*0.51	3.33	3.83	2.01
3033	Fields Cut, Wright River	32° 05.2'	80° 56.0'	+0 16	+0 29	*1.02	*1.05	6.98	8.10	3.72
3035	Turnbridge Landing, Salt Water Creek	32° 07.7'	81° 00.7'	+1 41	+0 59	*1.06	*1.09	7.27	8.43	3.87
	GEORGIA Savannah River									
3037	Tybee Light	32° 02'	80° 51'	-0 10	-0 12	*0.99	*0.99	6.8	8.0	3.6
3039	SAVANNAH RIVER ENTRANCE, FORT PULASKI	32° 02.0'	80° 54.1'			<i>Daily predictions</i>		6.92	8.03	3.67
3041	Fort Jackson	32° 04.9'	81° 02.2'	+0 29	+0 42	*1.09	*1.09	7.50	8.70	4.04
3043	Savannah, Bull Street	32° 05'	81° 05'	+0 44	+0 33	*1.14	*1.14	7.9	8.8	4.2
3045	Port Wentworth	32° 08.6'	81° 08.5'	+0 44	+0 41	*1.17	*0.95	8.14	9.12	4.28
3047	Little Back River, Hwy. 17, Back River, S.C.	32° 09.9'	81° 07.8'	+1 28	+1 41	*1.10	*1.14	7.63	8.55	4.06
3049	S.C.L. RR. bridge	32° 14'	81° 09'	+1 51	+3 08	*0.90	*0.91	6.2	7.2	3.3
3051	Purrysburg Landing, S.C.	32° 18.2'	81° 07.3'	+2 14	+3 38	*0.44	*0.41	3.03	3.48	1.60
	<i>Tybee Creek and Wassaw Sound</i>									
3053	Tybee Creek entrance	31° 59'	80° 51'	-0 09	+0 05	*0.99	*1.00	6.8	8.0	3.6
3055	Beach Hammock	31° 57'	80° 56'	-0 01	-0 07	*1.00	*1.00	6.9	8.1	3.7
3057	Romerly Marsh Creek	31° 56'	81° 00'	+0 08	-0 03	*1.03	*1.03	7.1	8.3	3.7
	<i>Wilmington River</i>									
3059	Savannah Sheraton Resort Hotel	32° 00'	81° 00'	+0 14	+0 06	*1.13	*1.14	7.8	9.1	4.2
3061	Thunderbolt	32° 02'	81° 03'	+0 32	+0 12	*1.15	*1.14	7.9	9.2	4.2
3063	North entrance	32° 04'	81° 00'	+0 40	+0 44	*1.10	*1.09	7.6	8.9	4.0
3065	Isle of Hope, Skidaway River	31° 59'	81° 03'	+0 50	+0 28	*1.13	*1.13	7.8	9.1	4.1
	<i>Ossabaw Sound</i>									
3067	Egg Islands	31° 50'	81° 05'	+0 04	+0 10	*1.04	*1.04	7.2	8.4	3.8
3069	Vernon View, Burnside River	31° 56'	81° 06'	+0 40	+0 31	*1.09	*1.09	7.5	8.8	4.0
3071	Coffee Bluff, Forest River	31° 56'	81° 09'	+1 05	+0 42	*1.09	*1.09	7.5	8.8	3.9
3073	Fort McAllister, Ogeechee River	31° 53'	81° 13'	+0 48	+1 16	*1.00	*1.00	6.9	8.1	3.6
3075	Highway bridge, Ogeechee River	31° 59'	81° 17'	+3 19	+4 25	*0.15	*0.14	1.0	1.2	0.5
3077	Florida Passage, Ogeechee River	31° 51'	81° 09'	+0 34	+0 46	*1.05	*0.91	7.3	8.5	3.8
3079	Florida Passage, Bear River	31° 49'	81° 10'	+0 46	+0 49	*1.09	*0.95	7.6	8.8	4.0
3081	Cane Patch Creek entrance	31° 49'	81° 09'	+0 55	+0 43	*1.05	*1.05	7.2	8.4	3.8
3083	Bradley Point, Bradley River	31° 49'	81° 03'	+0 04	+0 13	*1.02	*0.95	7.0	8.2	3.7
	<i>St. Catherines and Sapelo Sounds</i>									
3085	Walburg Creek entrance	31° 42'	81° 09'	+0 16	+0 21	*1.03	*1.00	7.1	8.3	3.8
3087	Kilkenny Club, Kilkenny Creek	31° 47'	81° 12'	+0 48	+0 37	*1.09	*0.91	7.5	8.8	4.0
3089	Bear River, (Range 'A' Light)	31° 47.6'	81° 10.9'	+0 42	+0 29	*1.06	*0.95	7.36	8.46	3.89
3091	Bear River Entrance	31° 43.3'	81° 08.5'	+0 10	+0 13	*1.00	*0.86	6.97	8.12	3.67
3093	Sunbury, Medway River	31° 46.0'	81° 16.7'	+0 55	+0 49	*1.05	*1.00	7.28	8.27	3.87
3095	Belfast, Belfast River	31° 49'	81° 18'	+1 23	+1 10	*1.13	*1.14	7.8	9.1	4.2
3097	North Newport River (Daymark 119)	31° 41'	81° 12'	+0 35	+0 31	*1.05	*1.00	7.2	8.4	3.8
3099	North Newport River	31° 40'	81° 16'	+0 56	+0 36	*1.10	*1.09	7.6	8.9	4.0
3101	South Newport Cut, N. Newport River	31° 40'	81° 16'	+1 01	+0 54	*1.08	*1.04	7.5	8.7	4.0
3103	Halfmoon, Timmons River	31° 41.7'	81° 16.3'	+1 21	+1 09	*1.06	*1.05	7.35	8.45	3.90
3105	Eagle Neck, South Newport River	31° 39'	81° 18'	+1 16	+1 06	*1.09	*1.00	7.5	8.8	4.0
3107	Thomas Landing, S. Newport River	31° 39'	81° 15'	+0 57	+0 46	*1.06	*0.95	7.4	8.6	3.9
3109	South Newport River (Daymark 135)	31° 34.5'	81° 11.4'	+0 22	+0 13	*1.00	*0.95	7.11	7.99	3.66
3111	Dallas Bluff, Julienton River	31° 35'	81° 19'	+0 48	+1 04	*1.10	*1.09	7.6	8.9	4.0
3113	Harris Neck, Barbour Island River	31° 37'	81° 16'	+0 54	+0 32	*1.08	*1.00	7.5	8.8	4.0
3115	Barbour Island, Barbour Island River	31° 35'	81° 14'	+0 36	+0 24	*1.06	*1.00	7.3	8.5	3.9
3117	Blackbeard Island	31° 32'	81° 12'	+0 18	+0 22	*1.00	*1.00	6.9	8.1	3.6
3119	Dog Hammock, Sapelo River	31° 32'	81° 16'	+0 33	+0 22	*1.04	*0.91	7.2	8.4	3.8
3121	Bellville Point, Sapelo River	31° 32'	81° 22'	+1 12	+1 02	*1.08	*0.86	7.5	8.8	3.9
3123	Pine Harbor, Sapelo River	31° 33'	81° 22'	+1 03	+1 04	*1.05	*1.05	7.2	8.4	3.8
3125	Eagle Creek, Mud River	31° 31'	81° 17'	+0 21	+0 19	*1.05	*1.05	7.2	8.4	3.8
3127	Creighton Narrows Entrance, Crescent River	31° 29'	81° 20'	+0 49	+0 37	*1.08	*1.09	7.4	8.6	4.0
3129	Mud River, Old Teakettle Cr.(Daymark 156)	31° 29.2'	81° 19.2'	+0 46	+0 33	*1.08	*1.00	7.50	8.43	3.97
	<i>Doboy and Altamaha Sounds</i>									
3131	Old Tea Kettle Creek (Daymark 173)	31° 26'	81° 18'	+0 39	+0 39	*0.96	*0.82	6.7	7.8	3.5
3133	Blackbeard Creek, Blackbeard Island	31° 29'	81° 13'	+0 19	+0 47	*0.94	*0.95	6.5	7.6	3.5
3135	Old Tower, Sapelo Island	31° 23.4'	81° 17.3'	+0 15	+0 14	*0.99	*0.95	6.82	7.84	3.62
3137	Hudson Creek entrance	31° 27'	81° 21'	+0 37	+0 31	*1.05	*1.05	7.2	8.4	3.8
3139	Threemile Cut entrance, Darien River	31° 21'	81° 23'	+0 44	+0 55	*1.03	*1.05	7.1	8.3	3.7
3141	Darien, Darien River	31° 22'	81° 26'	+1 08	+1 15	*1.06	*1.05	7.3	8.5	3.9
3143	Rockdedundy River (Daymark 185)	31° 22.4'	81° 20.0'	+0 25	+0 26	*1.00	*1.00	6.86	8.03	3.68
3145	Wolf Island, south end	31° 20'	81° 19'	+0 25	+0 45	*0.97	*1.09	6.7	7.8	3.6

Endnotes can be found at the end of table 2.

TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Spring	
				High Water	Low Water	High Water	Low Water			
	GEORGIA Doboy and Altamaha Sounds-cont. Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft
				on Savannah River Ent., p.148						
3147	Champney Island, South Altamaha River	31° 20'	81° 28'	+1 10	+2 33	*0.76	*0.77	5.2	6.1	2.8
3149	Hampton River entrance	31° 13'	81° 19'	+0 16	+0 04	*0.96	*0.95	6.6	7.8	3.5
3151	Jones Creek entrance, Hampton River	31° 18'	81° 20'	+1 03	+0 13	*1.05	*1.05	7.2	8.5	3.8
	St. Simons Sound									
3153	St. Simons Sound Bar	31° 06'	81° 19'	-0 01	-0 02	*0.95	*0.95	6.5	7.6	3.4
3155	St. Simons Light	31° 07.9'	81° 23.8'	+0 14	+0 16	*0.95	*0.91	6.60	7.72	3.50
3157	Frederick River Bridge	31° 10'	81° 25'	+0 43	+0 45	*1.00	*1.09	6.9	8.0	3.7
3159	Frederica River	31° 13'	81° 24'	+0 48	+0 56	*1.05	*1.05	7.2	8.4	3.8
3161	Mackay River (Daymark 239)	31° 13'	81° 26'	+0 58	+0 56	*1.03	*1.09	7.1	8.3	3.8
3163	Mackay River (ICWW), Buttermilk Sound	31° 17.1'	81° 23.1'	+0 58	+1 23	*1.00	*1.09	6.87	7.90	3.68
3165	Brunswick, East River, Howe Street Pier	31° 08.6'	81° 29.8'	+0 44	+0 35	*1.03	*1.00	7.13	8.27	3.78
	Turtle River									
3167	Crispen Island	31° 13'	81° 33'	+1 33	+0 55	*1.15	*1.05	7.9	9.3	4.2
3169	Allied Chemical Corp. docks	31° 11'	81° 31'	+1 03	+0 42	*1.10	*1.09	7.6	8.9	4.0
3171	Dillard Creek	31° 14'	81° 34'	+1 32	+1 02	*1.16	*1.18	8.0	9.4	4.3
3173	Buffalo River entrance	31° 13'	81° 35'	+1 37	+0 58	*1.16	*1.18	8.0	9.4	4.3
3175	Highway bridge, South Brunswick River	31° 09'	81° 34'	+1 07	+0 49	*1.10	*1.09	7.6	8.9	4.0
	St. Andrew Sound									
				on Fernandina Beach, p.152						
3177	Raccoon Key Spit	31° 00.8'	81° 27.3'	-0 19	+0 09	*1.09	*1.11	6.56	7.63	3.49
3179	Jekyll Island Marina, Jekyll Creek	31° 03.4'	81° 25.4'	+0 03	+0 36	*1.13	*1.16	6.83	7.85	3.63
3181	Jointer Island, Jointer Creek	31° 06'	81° 30'	+0 11	+0 31	*1.18	*1.18	7.2	8.4	3.8
	Little Satilla River									
3183	2.5 miles above mouth	31° 04'	81° 30'	-0 04	+0 31	*1.12	*1.12	6.8	7.9	3.6
3185	8 miles above mouth	31° 06'	81° 34'	+0 24	+1 02	*1.20	*1.20	7.3	8.5	3.8
3187	Below Spring Bluff	31° 10'	81° 37'	+1 09	+1 31	*1.23	*1.23	7.5	8.7	3.9
3189	Dover Bluff, Dover Creek	31° 01'	81° 32'	+0 06	+0 31	*1.15	*1.15	7.0	8.1	3.7
	Satilla River									
3191	Todd Creek entrance	30° 58'	81° 31'	-0 08	+0 41	*1.10	*1.10	6.7	7.8	3.5
3193	Bailey Cut, 0.8 mile west of	30° 59.1'	81° 35.5'	+0 28	+1 12	*1.13	*1.21	6.80	7.39	3.62
3195	Ceylon	30° 58'	81° 39'	+0 34	+1 35	*1.09	*1.09	6.6	7.7	3.5
3197	Burnt Fort	30° 57'	81° 54'	+3 55	+5 05	*0.53	*0.53	3.2	3.7	1.7
3199	Cumberland Wharf, Cumberland River	30° 55.8'	81° 26.8'	+0 00	+0 26	*1.12	*1.12	6.8	7.9	3.6
3201	Floyd Creek, 2.8 miles above entrance	30° 56'	81° 30'	+0 08	+0 21	*1.17	*1.17	7.1	8.2	3.7
	GEORGIA and FLORIDA Cumberland Sound									
3203	St. Marys Entrance, North Jetty	30° 43'	81° 26'	-0 36	-0 03	*0.96	*0.96	5.8	6.7	3.1
3205	Kings Bay, Navy Base	30° 48.1'	81° 30.9'	+0 12	+0 10	*1.09	*1.05	6.43	7.39	3.42
3207	Beach Creek ent., Cumberland Island	30° 43.6'	81° 28.6'	+0 00	-0 04	*0.98	*0.95	5.92	6.81	3.14
3209	Seacamp Dock, Cumberland Island	30° 45.8'	81° 28.3'	+0 12	+0 16	*1.04	*1.05	6.23	7.16	3.31
3211	Crooked River, Cumberland Dividings	30° 50.6'	81° 29.2'	+0 44	+0 56	*1.12	*1.12	6.8	7.9	3.6
3213	Harrietts Bluff, Crooked River	30° 52.2'	81° 35.1'	+1 29	+1 56	*1.05	*1.05	6.4	7.4	3.4
	St. Marys River									
3215	St. Marys	30° 43.2'	81° 32.9'	+0 38	+0 45	*0.98	*1.05	5.86	6.74	3.13
3217	Crandall	30° 43.3'	81° 37.3'	+1 06	+1 25	*0.81	*1.00	4.84	5.57	2.61
3219	U.S. Highway 17	30° 44.5'	81° 41.3'	+2 30	---	---	---	---	---	---
3221	Little St. Marys River	30° 43.9'	81° 43.6'	+2 49	+2 36	*0.71	*0.79	4.27	4.91	2.29
3223	Kings Ferry	30° 47.2'	81° 50.4'	+4 05	+4 09	*0.49	*1.16	2.83	3.25	1.63
3225	Chester, Bells River	30° 41.0'	81° 32.0'	+0 27	+0 19	*1.04	*1.11	6.27	7.21	3.34
3227	Roses Bluff, Bells River	30° 42.2'	81° 34.6'	+0 35	+0 35	*1.03	*0.95	6.18	7.11	3.28
3229	Lofton, Lanceford Creek	30° 38.6'	81° 31.4'	+0 18	-0 01	*1.05	*1.05	6.33	7.28	3.36
3231	FERNANDINA BEACH, Amelia River	30° 40.5'	81° 27.9'	<i>Daily Predictions</i>				6.02	7.07	3.20
3233	Kingsley Creek, RR. bridge	30° 37.9'	81° 28.6'	+0 27	+0 25	*0.99	*1.00	5.97	6.87	3.18
	FLORIDA Nassau Sound and Fort George River									
3235	Amelia City, South Amelia River	30° 35.2'	81° 27.8'	+0 21	+0 42	*0.89	*0.89	5.39	6.20	2.86
	Nassau River									
3237	entrance	30° 31.1'	81° 27.2'	-0 18	+0 41	*0.86	*1.00	5.16	5.93	2.77
3239	Nassauville	30° 34.1'	81° 30.9'	+0 24	+1 09	*0.80	*1.00	4.75	5.46	2.56
3241	Tiger Point, Pumpkin Hill Creek	30° 30.1'	81° 29.7'	+1 22	+1 46	*0.82	*0.95	4.89	5.62	2.63
3243	Edwards Creek, 1 mi. above entrance	30° 30.1'	81° 32.5'	+1 24	+1 51	*0.77	*0.85	4.62	5.36	2.48
3245	Cuno, Lofton Creek	30° 34.6'	81° 34.3'	+2 14	+2 48	*0.60	*1.05	3.55	4.12	1.98
3247	Mink Creek entrance	30° 32.2'	81° 34.9'	+1 13	+2 05	*0.72	*1.05	4.26	4.90	2.33
3249	Halfmoon Island, highway bridge	30° 34.6'	81° 36.5'	+2 00	+2 39	*0.70	*1.05	4.16	4.78	2.28
3251	Boggy Creek, 2 mi. above entrance	30° 35.3'	81° 39.8'	+3 29	+3 50	*0.49	*0.89	2.90	3.34	1.62
3253	Sawpit Creek entrance, bridge	30° 30.8'	81° 27.4'	-0 14	+0 21	*0.84	*1.00	5.05	5.81	2.71
3255	Sawpit Creek, 1 mi. above entrance	30° 30.2'	81° 28.3'	+0 05	+0 31	*0.84	*0.74	5.08	5.84	2.68
3257	Simpson Creek, A1A highway bridge	30° 27.9'	81° 25.9'	+0 04	+0 17	*0.84	*0.63	5.08	5.84	2.66
3259	Little Talbot Island, ocean	30° 25.8'	81° 24.3'	-0 36	-0 13	*0.91	*1.00	5.45	6.27	2.91
3261	Fort George Island, Fort George River	30° 26.4'	81° 26.3'	+0 10	+0 33	*0.79	*0.74	4.78	5.50	2.53
	St. Johns River									
				on Mayport, p.156						
3263	Mayport Naval Station, Degausing Structure	30° 23.8'	81° 23.7'	-0 21	-0 04	*1.07	*1.13	4.87	5.36	2.61
3265	Mayport Naval Station, Water Treatment Dock	30° 24.0'	81° 24.8'	-0 12	-0 06	*1.03	*1.00	4.72	5.17	2.51
3267	MAYPORT (BAR PILOT DOCK)	30° 23.8'	81° 25.8'	<i>Daily predictions</i>				4.57	5.32	2.44
3269	Pablo Creek entrance	30° 22.6'	81° 26.9'	+0 29	+0 33	*0.85	*0.73	3.89	4.24	2.05

Endnotes can be found at the end of table 2.

TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Spring	
				High Water	Low Water	High Water	Low Water			
	FLORIDA St. Johns River-cont. Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft
				on Mayport, p.156						
3271	Pablo Creek, ICWW bridge	30° 19.4'	81° 26.3'	+1 14	+1 20	*0.84	*1.00	3.82	4.16	2.06
3273	Sisters Creek	30° 25.0'	81° 27.2'	+0 32	+0 50	*0.95	*0.93	4.34	4.70	2.31
3275	Clapboard Creek, Pelotes Island	30° 24.4'	81° 30.6'	+0 32	+0 56	*0.79	*0.80	3.64	3.94	1.94
3277	Fulton	30° 23.4'	81° 30.4'	+0 24	+0 40	*0.80	*0.73	3.66	3.97	1.94
3279	Blount Island Bridge	30° 24.8'	81° 32.7'	+0 42	+1 05	*0.77	*0.73	3.51	3.80	1.87
3281	Dame Point	30° 23.2'	81° 33.5'	+0 42	+1 12	*0.70	*0.67	3.19	3.44	1.70
3283	Mill Cove	30° 22.2'	81° 33.5'	+0 51	---	---	---	---	---	---
3285	Cedar Heights, Broward River	30° 26.2'	81° 38.5'	+1 08	+1 53	*0.65	*0.53	2.99	3.47	1.58
3287	Jacksonville, Navy Fuel Depot	30° 24.0'	81° 37.6'	+1 14	+1 48	*0.56	*0.53	2.60	2.81	1.37
	<i>Trout River</i>									
3289	Moncrief Creek entrance	30° 23.5'	81° 39.7'	+1 11	+1 53	*0.55	*0.53	2.51	2.91	1.34
3291	Lake Forest, Ribault River	30° 23.9'	81° 41.9'	+1 13	+2 10	*0.58	*0.60	2.64	2.82	1.41
3293	Sherwood Forest	30° 25.2'	81° 43.7'	+1 42	+2 13	*0.58	*0.67	2.65	2.88	1.43
3295	Phoenix Park	30° 23.0'	81° 38.2'	+1 02	+1 47	*0.56	*0.60	2.54	2.75	1.36
3297	Jacksonville, Long Branch	30° 21.6'	81° 37.2'	+1 15	+1 54	*0.55	*0.73	2.49	2.89	1.35
3299	Little Pottsborg Creek	30° 18.6'	81° 36.6'	+1 31	+2 09	*0.44	*0.53	2.02	2.34	1.09
3301	Jacksonville, Main Street Bridge	30° 19.2'	81° 39.5'	+1 42	+2 13	*0.41	*0.73	1.83	2.03	1.03
3303	Ortega River entrance	30° 16.7'	81° 42.3'	+2 09	+2 47	*0.25	*0.47	1.11	1.26	0.63
3305	Piney Point	30° 13.7'	81° 39.8'	+2 39	+3 36	*0.20	*0.40	0.87	1.01	0.49
3307	I-295 bridge (west end)	30° 11.5'	81° 41.5'	+2 56	+3 43	*0.21	*0.21	0.91	1.06	0.55
3309	Orange Park Landing, Orange Park	30° 10.1'	81° 41.7'	+3 24	+4 44	*0.17	*0.17	0.74	0.87	0.45
3311	Peoria Point, Doctors Lake	30° 07.2'	81° 45.5'	+3 36	+4 56	*0.18	*0.18	0.80	0.93	0.45
3313	Julington Creek	30° 08.1'	81° 37.8'	+3 58	+5 13	*0.16	*0.16	0.71	0.83	0.43
3315	Black Creek, S.C.L. RR. bridge	30° 04.8'	81° 45.7'	+4 46	+5 52	*0.18	*0.18	0.82	0.92	0.46
3317	Green Cove Springs	29° 59.4'	81° 39.8'	+4 57	+5 55	*0.17	*0.27	0.78	0.90	0.43
3319	Tocoi	29° 51.5'	81° 33.2'	+6 02	+7 03	*0.21	*0.27	0.95	1.10	0.51
3321	Palmetto Bluff	29° 45.8'	81° 33.7'	+6 35	+7 36	*0.23	*0.47	1.04	1.18	0.59
3323	Palatka	29° 38.6'	81° 37.9'	+7 11	+8 38	*0.25	*0.53	1.09	1.22	0.63
3325	Sutherlands Still, Dunns Creek	29° 34.3'	81° 36.4'	+7 35	+9 05	*0.18	*0.20	0.84	0.97	0.45
3327	Buffalo Bluff	29° 35.7'	81° 40.9'	+7 27	+8 58	*0.21	*0.40	0.93	1.03	0.52
3329	Welaka	29° 28.6'	81° 40.5'	+7 16	+8 07	*0.10	*0.27	0.43	0.50	0.25
3331	Georgetown <24>	29° 23.1'	81° 38.2'	---	---	---	---	---	---	---
	Atlantic Coast			on Fernandina Beach, p.152						
3333	Atlantic Beach	30° 20.1'	81° 23.7'	-0 41	-0 23	*0.86	*0.86	5.2	6.0	2.8
3335	Jacksonville Beach	30° 17.0'	81° 23.2'	-0 50	-0 27	*0.84	*0.84	5.07	5.83	2.70
3337	Oak Landing, ICWW	30° 15.2'	81° 25.8'	+2 15	+2 03	*0.68	*0.80	4.07	4.72	2.20
3339	Palm Valley, ICWW	30° 08.0'	81° 23.2'	+2 00	+1 49	*0.79	*0.75	4.79	5.56	2.55
3341	Vilano Beach, Tolomato River	29° 55.0'	81° 18.0'	-0 20	-0 05	*0.74	*0.90	4.48	5.20	2.42
3343	St. Augustine, city dock	29° 53.5'	81° 18.6'	-0 20	+0 01	*0.75	*0.89	4.48	5.15	2.41
3345	St. Augustine Beach	29° 51.4'	81° 15.8'	-0 51	-0 32	*0.77	*0.84	4.61	5.48	2.47
	<i>Matanzas River, ICWW</i>									
3347	State Road 312	29° 52.0'	81° 18.4'	-0 03	+0 15	*0.72	*1.00	4.31	5.04	2.34
3349	Crescent Beach	29° 46.1'	81° 15.5'	+0 39	+1 14	*0.69	*0.95	4.09	4.79	2.23
3351	Fort Matanzas	29° 42.9'	81° 14.3'	+0 03	+0 49	*0.65	*0.95	3.86	4.44	2.11
3353	Matanzas Inlet, A1A bridge	29° 42.3'	81° 13.7'	-0 26	+0 00	*0.61	*0.84	3.64	4.21	2.05
3355	Bing Landing	29° 36.9'	81° 12.3'	+2 15	+2 52	*0.26	*0.68	1.46	1.71	0.86
3357	Smith Creek, Flagler Beach	29° 28.7'	81° 08.2'	+4 33	+5 00	*0.15	*0.30	0.86	1.00	0.49
3359	Ormond Beach, Halifax River	29° 17.1'	81° 03.2'	+3 17	+4 31	*0.11	*0.45	0.60	0.70	0.39
3361	Daytona Beach Shores, Sunglow Pier	29° 08.8'	80° 57.8'	-0 56	-0 42	*0.65	*0.84	3.90	4.49	2.11
				on Miami, Government Cut, p.164						
3363	Ponce de Leon Inlet	29° 03.8'	80° 54.9'	-0 11	+0 19	*1.17	*0.92	2.76	3.37	1.48
3365	Ponce Inlet, Halifax River	29° 04.9'	80° 56.2'	+0 05	+0 33	*1.18	*1.00	2.75	3.36	1.52
	<i>Mosquito Lagoon</i>									
3367	New Smyrna Beach	29° 01.4'	80° 55.1'	+0 19	+0 49	*1.04	*1.00	2.43	2.77	1.36
3369	Packwood Place	28° 56.4'	80° 52.2'	+1 43	+2 40	*0.44	*0.44	1.06	1.24	0.56
3371	Turtle Mound	28° 55.6'	80° 49.5'	+3 01	+4 30	*0.17	*0.17	0.45	0.51	0.23
3373	Oak Hill <21>	28° 52'	80° 50'	---	---	---	---	---	---	---
3375	Cape Canaveral	28° 26'	80° 34'	-1 06	-0 44	*1.50	*1.42	3.5	4.1	2.0
3377	PORT CANAVERAL (TRIDENT PIER)	28° 24.9'	80° 35.6'	<i>Daily predictions, p.160</i>						
3379	Cocoa Beach	28° 22.1'	80° 36.0'	-1 01	-0 38	*1.47	*1.14	3.46	4.22	1.89
3381	Patrick Air Force Base	28° 14.7'	80° 36.0'	-1 04	-0 38	*1.50	*1.43	3.50	4.20	1.95
	<i>Banana River</i>									
3383	Kennedy Pkwy., Banana Creek, Merritt I. <22>	28° 35.4'	80° 39.5'	---	---	---	---	---	---	---
3385	VAB Turning Basin, Merritt Island <22>	28° 35.1'	80° 38.6'	---	---	---	---	---	---	---
3387	Orsino Causeway <22>	28° 30.8'	80° 36.7'	---	---	---	---	---	---	---
3389	Port Canaveral locks <22>	28° 24.5'	80° 38.3'	---	---	---	---	---	---	---
3391	Sykes Creek <22>	28° 24.3'	80° 41.8'	---	---	---	---	---	---	---
3393	Carter's Cut, Merritt Island <22>	28° 09.5'	80° 36.7'	---	---	---	---	---	---	---
	<i>Indian River</i>									
3395	Titusville <22>	28° 37.2'	80° 48.0'	---	---	---	---	---	---	---
3397	Williams Point <22>	28° 27.4'	80° 45.6'	---	---	---	---	---	---	---
3399	Pineda <22>	28° 12.7'	80° 39.8'	---	---	---	---	---	---	---
3401	Canova Beach	28° 08.3'	80° 34.7'	-0 53	-0 26	*1.49	*1.50	3.45	4.14	1.93
	<i>Indian River - cont.</i>									
3403	Eau Gallie <22>	28° 08.0'	80° 37.5'	---	---	---	---	---	---	---
3405	Melbourne <22>	28° 06.0'	80° 36.7'	---	---	---	---	---	---	---
3407	Palm Bay <22>	28° 02.5'	80° 34.9'	---	---	---	---	---	---	---
3409	Micco	27° 52.4'	80° 29.8'	+1 14	+2 19	*0.14	*0.57	0.26	0.31	0.21
3411	Sebastian Inlet bridge	27° 51.6'	80° 26.9'	-0 48	-0 24	*0.93	*1.00	2.16	2.64	1.22

Endnotes can be found at the end of table 2.

TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Spring	
				High Water	Low Water	High Water	Low Water			
	FLORIDA Atlantic Coast-cont. Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft
				on Miami, Government Cut, p.164						
	<i>Indian River - cont.</i>									
3413	Sebastian	27° 48.7'	80° 27.8'	+1 32	+2 36	*0.15	*0.50	0.30	0.36	0.22
3415	Wabasso	27° 45.3'	80° 25.6'	+2 20	+3 24	*0.17	*0.42	0.37	0.44	0.25
3417	Vero Beach	27° 38.0'	80° 22.5'	+2 56	+3 41	*0.37	*0.79	0.80	0.96	0.51
3419	Oslo	27° 35.6'	80° 21.4'	+3 00	+3 59	*0.34	*0.50	0.77	0.92	0.46
3421	St. Lucie	27° 28.7'	80° 20.0'	+0 41	+1 46	*0.48	*1.00	1.05	1.26	0.66
3423	Vero Beach (ocean)	27° 40.2'	80° 21.6'	-0 55	-0 35	*1.45	*1.36	3.39	4.03	1.88
3425	Fort Pierce Inlet, south jetty	27° 28.2'	80° 17.3'	-0 31	-0 18	*1.14	*1.50	2.61	3.13	1.52
3427	Fort Pierce Inlet, Binney dock	27° 28.1'	80° 17.8'	-0 14	-0 01	*0.82	*1.28	1.85	2.22	1.11
	<i>Indian River - cont.</i>									
3429	Fort Pierce, North Beach Causeway	27° 28.3'	80° 19.5'	+0 21	+0 45	*0.67	*1.14	1.50	1.79	0.91
3431	Fort Pierce, South Beach Causeway	27° 27.4'	80° 19.4'	+0 35	+0 44	*0.64	*1.00	1.43	1.64	0.85
3433	Ankona	27° 21.3'	80° 16.5'	+2 16	+3 03	*0.52	*0.85	1.10	1.32	0.67
3435	Eden, Nettles Island	27° 17.2'	80° 13.6'	+2 35	+3 31	*0.45	*0.92	0.98	1.18	0.62
3437	Jensen Beach	27° 14.1'	80° 12.6'	+2 17	+3 04	*0.48	*0.92	1.05	1.26	0.65
	<i>St. Lucie River</i>									
3439	North Fork	27° 14.6'	80° 18.8'	+2 28	+3 28	*0.46	*0.92	0.99	1.19	0.63
3441	Stuart	27° 12.0'	80° 15.5'	+2 13	+3 30	*0.40	*0.86	0.88	1.06	0.56
3443	South Fork	27° 09.9'	80° 15.3'	+2 35	+3 32	*0.43	*0.92	0.93	1.12	0.59
3445	Sewall Point	27° 10.5'	80° 11.3'	+1 13	+2 10	*0.43	*0.93	0.93	1.11	0.59
3447	Port Salerno, Manatee Pocket	27° 09.1'	80° 11.7'	+0 51	+1 46	*0.42	*0.92	0.90	1.08	0.58
3449	Seminole Shores	27° 11.0'	80° 09.5'	-0 59	-0 35	*1.29	*1.28	3.00	3.60	1.68
3451	Great Pocket	27° 09.1'	80° 10.3'	+0 55	+1 42	*0.50	*1.00	1.08	1.30	0.68
3453	Peck Lake, ICWW	27° 06.8'	80° 08.7'	+1 13	+2 10	*0.58	*1.00	1.28	1.54	0.78
3455	Gomez, South Jupiter Narrows	27° 05.7'	80° 08.2'	+1 33	+2 37	*0.60	*1.07	1.32	1.58	0.81
3457	Hobe Sound bridge	27° 03.8'	80° 07.4'	+1 28	+2 25	*0.68	*1.00	1.53	1.84	0.90
3459	Hobe Sound, Jupiter Island	27° 02.2'	80° 06.4'	+1 16	+2 12	*0.75	*1.00	1.72	2.06	1.00
3461	Conch Bar, Jupiter Sound	26° 59.3'	80° 05.6'	+0 56	+1 34	*0.74	*1.07	1.68	2.02	0.99
3463	Jupiter Sound, south end	26° 57.1'	80° 04.7'	+0 22	+0 45	*0.88	*1.36	1.98	2.38	1.18
3465	Jupiter Inlet, south jetty	26° 56.6'	80° 04.4'	-0 10	-0 09	*1.08	*1.42	2.46	2.95	1.43
3467	Jupiter Inlet, U.S. Highway 1 Bridge	26° 56.9'	80° 05.1'	+0 28	+1 05	*0.86	*1.14	1.96	2.35	1.14
	<i>Loxahatchee River</i>									
3469	A1A highway bridge	26° 56.8'	80° 05.4'	+0 34	+0 54	*0.87	*1.14	2.00	2.40	1.16
3471	Tequesta	26° 57.0'	80° 06.1'	+0 59	+1 58	*0.80	*1.14	1.83	2.20	1.08
3473	Tequesta, North Fork entrance	26° 57.1'	80° 06.1'	+0 51	+1 42	*0.78	*0.92	1.80	2.16	1.03
3475	Tequesta, North Fork	26° 57.6'	80° 06.3'	+1 14	+2 13	*0.75	*1.00	1.72	2.06	1.00
3477	North Fork, 2 miles above entrance	26° 58.6'	80° 06.9'	+1 04	+1 55	*0.86	*1.14	1.95	2.34	1.14
3479	3 miles above A1A highway bridge	26° 58.2'	80° 07.5'	+0 56	+1 49	*0.86	*1.14	1.98	2.38	1.15
3481	Boy Scout Dock	26° 59.2'	80° 08.5'	+1 01	+1 57	*0.92	*1.36	2.09	2.51	1.23
3483	Southwest Fork, 0.5 mile above entrance	26° 56.6'	80° 07.2'	+0 41	+1 35	*0.89	*1.42	2.00	2.40	1.20
3485	Southwest Fork (spillway)	26° 56.1'	80° 08.6'	+0 52	+1 45	*0.86	*1.28	1.94	2.33	1.15
3487	Jupiter, Lake Worth Creek, ICWW	26° 56.1'	80° 05.1'	+0 34	+1 12	*0.91	*1.28	2.06	2.47	1.21
3489	Lake Worth Creek, Day Beacon 19, ICWW	26° 54.7'	80° 04.8'	+0 29	+1 08	*0.92	*1.21	2.10	2.52	1.22
3491	Donald Ross Bridge, ICWW	26° 52.9'	80° 04.2'	+0 20	+0 50	*1.00	*1.21	2.31	2.77	1.32
3493	PGA Boulevard Bridge, ICWW	26° 50.6'	80° 04.0'	-0 02	+0 31	*1.16	*1.36	2.68	3.22	1.53
	<i>Lake Worth</i>									
3495	North Palm Beach	26° 49.6'	80° 03.3'	-0 17	+0 15	*1.22	*1.29	2.81	3.34	1.59
3497	Port of Palm Beach	26° 46.2'	80° 03.1'	-0 21	+0 04	*1.18	*1.36	2.72	3.26	1.55
3499	Palm Beach	26° 44.0'	80° 02.5'	-0 11	+0 16	*1.17	*1.29	2.69	3.20	1.54
3501	Palm Beach, Highway 704 bridge	26° 42.3'	80° 02.7'	+0 18	+0 40	*1.10	*1.07	2.57	3.06	1.44
3503	West Palm Beach Canal	26° 38.7'	80° 02.7'	+0 48	+1 35	*1.07	*1.14	2.46	2.92	1.40
3505	Rt. 802 bridge	26° 36.8'	80° 02.8'	+0 42	+1 26	*1.18	*1.07	2.75	3.27	1.52
3507	Boynton Beach	26° 32.9'	80° 03.2'	+1 05	+2 07	*1.06	*1.07	2.47	2.94	1.38
3509	Lake Worth Pier (ocean)	26° 36.7'	80° 02.0'	-0 45	-0 19	*1.16	*1.00	2.73	3.25	1.50
3511	Ocean Ridge, ICWW	26° 31.6'	80° 03.2'	+1 16	+2 10	*1.10	*1.21	2.54	3.05	1.44
3513	Delray Beach, ICWW	26° 28.4'	80° 03.7'	+1 24	+2 07	*1.07	*1.14	2.47	2.94	1.40
3515	South Delray Beach, ICWW	26° 26.8'	80° 03.9'	+1 28	+2 03	*1.03	*1.10	2.37	2.82	1.34
3517	Yamato, ICWW	26° 24.2'	80° 04.2'	+1 22	+1 57	*1.02	*1.14	2.35	2.80	1.34
3519	Lake Wyman, ICWW	26° 22.2'	80° 04.2'	+1 24	+1 54	*0.93	*1.06	2.14	2.55	1.22
3521	Boca Raton, Lake Boca Raton	26° 20.6'	80° 04.6'	+0 23	+1 07	*0.97	*1.14	2.23	2.68	1.27
3523	Deerfield Beach, Hillsboro River	26° 18.8'	80° 04.9'	+0 28	+1 03	*1.02	*1.07	2.36	2.83	1.33
3525	Hillsboro Beach, ICWW	26° 16.5'	80° 04.8'	+0 02	+0 34	*1.06	*1.07	2.47	2.96	1.39
3527	Hillsboro Inlet, Coast Guard Light Station	26° 15.5'	80° 04.9'	-0 16	+0 03	*1.08	*1.14	2.49	2.96	1.41
3529	Hillsboro Inlet Marina	26° 15.6'	80° 05.1'	-0 06	+0 24	*1.06	*1.14	2.45	2.94	1.38
3531	Hillsboro Inlet (ocean)	26° 15.4'	80° 04.8'	-0 23	+0 00	*1.12	*1.21	2.60	3.12	1.47
3533	Lauderdale-by-the-Sea, Anglin Fishing Pier	26° 11.3'	80° 05.6'	-0 34	-0 13	*1.14	*1.28	2.64	3.17	1.50
	<i>Fort Lauderdale</i>									
3535	Bahia Mar Yacht Club	26° 06.8'	80° 06.5'	-0 05	+0 33	*1.05	*1.21	2.42	2.90	1.38
3537	Andrews Avenue bridge, New River	26° 07.1'	80° 08.7'	+0 15	+0 51	*0.92	*1.07	2.13	2.56	1.22
3539	Mayan Lake	26° 06.0'	80° 06.5'	+0 20	+1 02	*0.91	*1.00	2.11	2.53	1.19
3541	Port Everglades, Turning Basin	26° 05.5'	80° 07.4'	-0 29	-0 09	*1.09	*1.14	2.53	3.01	1.43
3543	South Port Everglades, ICWW	26° 04.9'	80° 07.0'	-0 23	-0 03	*1.10	*1.42	2.52	3.02	1.46
3545	Whiskey Creek, north end	26° 04.8'	80° 06.7'	-0 23	-0 06	*1.10	*1.28	2.52	3.02	1.44
3547	Port Laudania, Dania cut-off Canal	26° 03.6'	80° 07.8'	+0 01	+0 11	*1.00	*1.21	2.30	2.76	1.32
3549	Whiskey Creek, south entrance, ICWW	26° 03.3'	80° 06.8'	+0 04	+0 31	*0.96	*1.14	2.21	2.63	1.27
3551	Hollywood Beach, West Lake, north end	26° 02.6'	80° 07.6'	+1 08	+1 42	*0.85	*1.07	1.94	2.33	1.12
3553	Hollywood Beach, West Lake, south end	26° 02.0'	80° 07.4'	+1 02	+1 45	*0.88	*1.14	2.02	2.42	1.17
3555	Hollywood Beach	26° 02.4'	80° 06.9'	+0 37	+1 41	*0.91	*1.14	2.08	2.50	1.20
3557	Golden Beach, ICWW	25° 58.0'	80° 07.4'	+1 13	+1 57	*0.91	*1.07	2.10	2.52	1.20
3559	Dumfoundling Bay	25° 56.5'	80° 07.5'	+1 17	+2 07	*0.88	*1.00	2.02	2.40	1.15
3561	Sunny Isles, Biscayne Creek	25° 55.7'	80° 07.8'	+2 00	+2 24	*0.77	*0.71	1.8	2.2	1.0
3563	Biscayne Creek, ICWW	25° 52.8'	80° 09.8'	+0 47	+1 39	*0.93	*1.00	2.15	2.56	1.21
3565	North Miami Beach, Newport Fishing Pier	25° 55.8'	80° 07.2'	-0 22	+0 00	*1.08	*1.21	2.49	2.96	1.41
3567	Haulover Pier, N. Miami Beach	25° 54.2'	80° 07.2'	-0 29	-0 06	*1.06	*1.00	2.48	2.95	1.37

Endnotes can be found at the end of table 2.

TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Spring	
				High Water	Low Water	High Water	Low Water			
	FLORIDA Atlantic Coast-cont. Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft
				on Miami, Government Cut, p.164						
3569	Bakers Haulover Inlet (inside)	25° 54.2'	80° 07.5'	+0 57	+1 37	*0.87	*0.92	2.01	2.20	1.13
3571	Indian Creek Golf Club, ICWW	25° 52.5'	80° 08.6'	+1 13	+1 46	*0.92	*0.92	2.13	2.56	1.20
3573	Miami Harbor Entrance	25° 46.1'	80° 07.9'	-0 22	-0 02	*1.07	*1.14	2.46	2.93	1.39
3575	GOVERNMENT CUT, MIAMI HARBOR ENTRANCE	25° 45.8'	80° 07.8'			<i>Daily predictions</i>		2.32	2.83	1.32
	<i>Biscayne Bay</i>									
3577	San Marino Island	25° 47.6'	80° 09.8'	+0 37	+0 58	*0.92	*1.00	2.14	2.57	1.21
3579	Miami, Miamarina	25° 46.7'	80° 11.1'	+0 20	+0 49	*0.94	*0.92	2.18	2.59	1.22
3581	Dodge Island, Fishermans Channel	25° 46.2'	80° 10.1'	+0 34	+1 10	*0.91	*1.00	2.10	2.52	1.19
3583	Dinner Key Marina	25° 43.6'	80° 14.2'	+0 54	+1 48	*0.84	*0.92	1.94	2.33	1.10
	Florida Keys									
3585	Bear Cut, Virginia Key	25° 43.9'	80° 09.7'	+0 28	+0 51	*0.88	*0.86	2.05	2.44	1.15
3587	Key Biscayne Yacht Club, Biscayne Bay	25° 41.9'	80° 10.2'	+0 44	+1 31	*0.86	*0.92	2.00	2.40	1.13
3589	Coral Shoal, Biscayne Channel	25° 39.1'	80° 09.4'	+0 11	+0 37	*0.88	*0.92	2.05	2.46	1.15
3591	Cutler, Biscayne Bay	25° 36.9'	80° 18.3'	+1 01	+1 58	*0.84	*0.92	1.94	2.22	1.10
3593	Soldier Key	25° 35'	80° 10'	+0 30	+1 16	*0.81	*0.71	1.9	2.3	1.0
3595	Ragged Keys, Biscayne Bay	25° 32.0'	80° 10.3'	+0 43	+1 18	*0.73	*1.00	1.65	1.96	0.96
3597	Boca Chita Key, Biscayne Bay	25° 31.4'	80° 10.6'	+1 01	+1 39	*0.70	*1.14	1.57	1.88	0.94
3599	Sands Key, northwest point, Biscayne Bay	25° 30.3'	80° 11.3'	+1 25	+2 26	*0.63	*0.64	1.46	1.64	0.82
3601	Coon Point, Elliott Key, Biscayne Bay	25° 28.7'	80° 11.4'	+1 55	+2 56	*0.63	*0.71	1.44	1.63	0.82
3603	Elliott Key Harbor, Elliott Key, Biscayne Bay	25° 27.2'	80° 11.8'	+1 56	+3 00	*0.64	*0.64	1.48	1.67	0.83
3605	Turkey Point, Biscayne Bay	25° 26.2'	80° 19.7'	+2 11	+3 21	*0.70	*0.79	1.61	1.71	0.92
3607	Billys Point, south of, Elliott Key, Biscayne Bay	25° 24.9'	80° 12.6'	+2 08	+3 20	*0.63	*0.64	1.46	1.65	0.82
3609	Sea Grape Point, Elliott Key	25° 28.6'	80° 10.8'	-0 25	-0 05	*1.03	*1.03	2.30	2.74	1.39
3611	Christmas Point, Elliott Key	25° 23.5'	80° 13.8'	+0 13	+0 37	*0.80	*1.07	1.82	2.13	1.06
3613	Adams Key, south end, Biscayne Bay	25° 23.8'	80° 14.0'	+1 01	+1 08	*0.67	*1.00	1.52	1.75	0.90
3615	Totten Key, west side, Biscayne Bay	25° 22.7'	80° 15.4'	+2 19	+3 21	*0.54	*0.57	1.26	1.41	0.71
3617	East Arsenicker, Card Sound	25° 22.4'	80° 17.5'	+2 26	+3 09	*0.40	*0.64	0.91	1.04	0.54
3619	Card Sound, western side	25° 20.7'	80° 19.9'	+2 51	+3 40	*0.30	*0.43	0.68	0.77	0.40
3621	Pumpkin Key, south end, Card Sound	25° 19.5'	80° 17.6'	+2 35	+2 52	*0.30	*0.78	0.63	0.71	0.43
3623	Wednesday Point, Key Largo, Card Sound	25° 18.6'	80° 17.9'	+2 38	+3 30	*0.34	*0.57	0.77	0.88	0.46
3625	Cormorant Point, Key Largo, Card Sound	25° 17.4'	80° 20.3'	+2 45	+3 01	*0.32	*0.50	0.73	0.82	0.43
3627	Little Card Sound bridge	25° 17.3'	80° 22.2'	+3 30	+4 03	*0.24	*0.43	0.53	0.63	0.33
3629	Ocean Reef Harbor, Key Largo	25° 18.6'	80° 16.8'	-0 08	+0 17	*1.02	*1.50	2.30	2.74	1.36
3631	Main Key, Barnes Sound	25° 14.4'	80° 24.0'	+5 04	+6 16	*0.19	*0.36	0.41	0.46	0.26
3633	Manatee Creek, Manatee Bay, Barnes Sound	25° 14.1'	80° 25.8'	+5 14	+6 20	*0.18	*0.36	0.39	0.44	0.25
3635	Manatee Creek, Hwy. 1 bridge, Long Sound <26>	25° 14.1'	80° 26.1'	---	---	---	---	---	---	---
3637	Carysfort Reef	25° 13.3'	80° 12.7'	+0 19	+0 39	*1.03	*1.36	2.34	2.60	1.36
3639	Jewfish Creek entrance, Blackwater Sound <26>	25° 11.0'	80° 23.2'	---	---	---	---	---	---	---
3641	Deep Six Marina, Blackwater Sound <26>	25° 08.4'	80° 24.2'	---	---	---	---	---	---	---
3643	Garden Cove, Key Largo	25° 10.3'	80° 22.0'	-0 11	+0 25	*0.94	*1.14	2.16	2.53	1.24
3645	Largo Sound, Key Largo	25° 08.4'	80° 23.7'	+2 13	+3 03	*0.35	*0.50	0.80	0.96	0.47
3647	Key Largo, South Sound, Key Largo	25° 06.8'	80° 25.0'	+0 23	+1 49	*0.66	*0.64	1.55	1.86	0.85
3649	Point Charles, Key Largo	25° 04.9'	80° 27.0'	+0 25	+1 53	*0.77	*0.64	1.80	2.14	0.99
3651	Rock Harbor, Key Largo	25° 04.9'	80° 26.8'	+0 22	+0 36	*0.94	*1.21	2.14	2.57	1.24
3653	Sunset Cove, Key Largo, Buttonwood Sound <26>	25° 05.7'	80° 26.6'	---	---	---	---	---	---	---
3655	Hammer Point, Key Largo, Florida Bay <26>	25° 02.1'	80° 30.3'	---	---	---	---	---	---	---
3657	Tavernier, Key Largo, Florida Bay <26>	25° 00.9'	80° 30.9'	---	---	---	---	---	---	---
3659	Tavernier Harbor, Hawk Channel	25° 00.3'	80° 31.0'	+0 07	+0 26	*0.90	*1.36	2.04	2.43	1.21
3661	Tavernier Creek, Hwy. 1 bridge, Hawk Channel	25° 00.2'	80° 31.8'	+0 25	+0 52	*0.60	*1.07	1.32	1.58	0.81
3663	Plantation Key, northern end, Florida Bay <26>	25° 00.1'	80° 32.6'	---	---	---	---	---	---	---
3665	Crane Keys, north side, Florida Bay	25° 00.3'	80° 37.1'	+2 52	+4 35	*0.17	*0.21	0.39	0.46	0.22
3667	East Key, southern end, Florida Bay	24° 59.8'	80° 36.6'	+2 43	+4 06	*0.22	*0.14	0.52	0.62	0.28
3669	Plantation Key, Hawk Channel	24° 58.4'	80° 33.0'	+0 05	+0 12	*0.96	*1.21	2.20	2.64	1.27
3671	Yacht Harbor, Cowpens Anchorage, Plantation Key	24° 57.9'	80° 34.1'	+2 45	+4 00	*0.23	*0.29	0.53	0.64	0.31
3673	Snake Creek, Hwy. 1 bridge, Windley Key	24° 57.1'	80° 35.3'	+0 49	+0 56	*0.46	*0.50	1.07	1.28	0.61
3675	Snake Creek, USCG Station, Plantation Key	24° 57.2'	80° 35.2'	+1 08	+1 56	*0.36	*0.50	0.82	0.98	0.48
3677	Whale Harbor, Windley Key, Hawk Channel	24° 56.4'	80° 36.5'	+0 07	+0 51	*0.65	*0.36	1.56	1.87	0.83
3679	Whale Harbor Channel, Hwy. 1 bridge, Windley Key	24° 56.3'	80° 36.6'	+0 16	+1 00	*0.59	*0.71	1.36	1.63	0.78
3681	Upper Matecumbe Key, Hawk Channel	24° 54.9'	80° 37.9'	+0 34	+0 49	*0.87	*1.21	1.98	2.38	1.16
3683	Alligator Reef, Hawk Channel	24° 51.0'	80° 37.1'	+0 08	+0 24	*0.86	*1.36	1.93	2.37	1.15
				on Key West, p.172						
3685	Flamingo, Florida Bay	25° 08.5'	80° 55.4'	+5 28	+7 20	*1.47	*1.08	2.02	2.52	1.27
3687	Upper Matecumbe Key, west end, Hawk Channel	24° 53.8'	80° 39.5'	-1 00	+0 14	*0.98	*0.33	1.44	1.80	0.80
3689	Indian Key, Hawk Channel	24° 52.6'	80° 40.6'	-0 58	-0 35	*1.30	*0.71	1.84	2.30	1.09
3691	Shell Key Channel, Florida Bay	24° 54.8'	80° 39.6'	-0 20	+0 45	*0.78	*0.78	1.02	1.28	0.58
3693	Lignumvitae Key, NE side, Florida Bay	24° 54.2'	80° 41.7'	+0 09	+1 31	*0.52	*0.52	0.68	0.85	0.37
3695	Lignumvitae Key, west side, Florida Bay	24° 54.0'	80° 42.3'	+0 32	+1 54	*0.47	*0.47	0.62	0.74	0.35
3697	Little Basin, Upper Matecumbe Key, Florida Bay	24° 54.9'	80° 38.4'	+0 08	+1 15	*0.61	*0.61	0.80	1.00	0.40
3699	Shell Key, northwest side, Lignumvitae Basin	24° 55.4'	80° 40.3'	+0 31	+1 57	*0.46	*0.46	0.60	0.75	0.33
3701	Islamorada, Upper Matecumbe Key, Florida Bay	24° 55.5'	80° 37.9'	+0 39	+2 07	*0.37	*0.37	0.49	0.57	0.30
3703	Indian Key Anchorage, Lower Matecumbe Key	24° 52.1'	80° 42.2'	-1 25	-0 54	*1.38	*0.88	1.89	2.34	1.16
3705	Matecumbe Bight, Lower Matecumbe Key, Fla. Bay	24° 51.9'	80° 43.0'	-0 18	+0 33	*0.55	*0.38	0.75	0.93	0.47
3707	Matecumbe Harbor, Lower Matecumbe Key, Fla. Bay	24° 51.1'	80° 44.4'	-0 25	+0 23	*0.59	*0.33	0.83	1.04	0.50
3709	Channel Two, east, Lower Matecumbe Key, Fla. Bay	24° 50.7'	80° 44.9'	-0 49	-0 42	*0.85	*0.54	1.18	1.48	0.72
3711	Channel Two, west side, Hawk Channel	24° 50.5'	80° 45.2'	-1 06	-0 54	*1.12	*0.75	1.55	1.94	0.96
3713	Channel Five, east side, Hawk Channel	24° 50.2'	80° 46.0'	-0 54	-0 42	*0.90	*0.58	1.25	1.56	0.77
3715	Channel Five, west side, Hawk Channel	24° 50.4'	80° 46.8'	-0 58	-0 41	*1.00	*0.67	1.39	1.74	0.85
3717	Jewfish Hole, Long Key, Florida Bay	24° 50.3'	80° 47.9'	-0 11	+1 32	*0.42	*0.38	0.56	0.70	0.37
3719	Long Key Bight, Long Key	24° 49.7'	80° 48.5'	-0 59	-0 43	*1.03	*0.62	1.44	1.80	0.87
3721	Long Key Lake, Long Key	24° 49.2'	80° 49.0'	+0 33	+0 57	*0.62	*0.46	0.85	1.06	0.53

Endnotes can be found at the end of table 2.

TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Spring	
				High Water	Low Water	High Water	Low Water			
	FLORIDA Florida Keys-cont. Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft
				<i>on Key West, p.172</i>						
3723	Long Key, western end	24° 48.1'	80° 51.0'	-1	01	-0	54	*0.82	*0.33	1.19 1.49 0.67
3725	Conch Key, eastern end	24° 47.5'	80° 53.0'	-1	09	-0	45	*0.85	*0.54	1.18 1.48 0.72
3727	Toms Harbor Cut	24° 47.0'	80° 54.4'	-1	19	-0	30	*0.37	*0.38	0.48 0.60 0.33
3729	Toms Harbor, Duck Key <26>	24° 46.4'	80° 54.9'	---	---	---	---	---	---	---
3731	Duck Key, Hawk Channel	24° 45.9'	80° 54.8'	-1	11	-0	40	*0.97	*0.55	1.34 1.66 0.80
3733	Toms Harbor Channel, Hwy. 1 bridge	24° 46.6'	80° 55.4'	+5	07	+4	49	*0.38	*0.38	0.50 0.62 0.45
3735	Grassy Key, north side, Florida Bay	24° 46.3'	80° 56.4'	+5	40	+6	48	*0.73	*1.04	0.86 1.07 0.68
3737	Grassy Key, south side, Hawk Channel	24° 45.3'	80° 57.5'	-0	52	-0	26	*1.22	*0.71	1.72 2.15 1.03
3739	Fat Deer Key, Florida Bay	24° 44.0'	81° 01.1'	+5	09	+6	26	*0.87	*0.87	1.14 1.42 0.82
3741	Vaca Key-Fat Deer Key bridge	24° 43.8'	81° 01.8'	-1	11	-0	36	*0.95	*0.71	1.31 1.64 0.83
3743	Key Colony Beach	24° 43.1'	81° 01.0'	-1	17	-0	53	*1.22	*0.83	1.66 2.06 1.03
3745	VACA KEY, USCG STATION, FLORIDA BAY	24° 42.7'	81° 06.3'	<i>Daily predictions, p.168</i>				0.72	0.97	0.51
3747	Boot Key Harbor bridge, Boot Key	24° 42.2'	81° 06.3'	-1	03	-0	37	*1.13	*0.75	1.57 1.96 0.96
3749	Sombrero Key, Hawk Channel	24° 37.6'	81° 06.7'	-1	03	-0	39	*1.18	*0.79	1.64 2.02 1.01
3751	Knight Key Channel, Knight Key, Florida Bay	24° 42.4'	81° 07.5'	-0	02	-0	18	*0.54	*0.50	0.72 0.90 0.48
3753	Pigeon Key, south side, Hawk Channel	24° 42.2'	81° 09.3'	-0	55	-0	26	*0.81	*0.50	1.14 1.42 0.69
3755	Pigeon Key, north side, Florida Bay	24° 42.3'	81° 09.4'	-0	10	+0	45	*0.46	*0.46	0.60 0.75 0.44
3757	Molasses Key Channel, Molasses Keys	24° 41.0'	81° 11.5'	-0	56	-0	16	*0.79	*0.50	1.10 1.38 0.67
3759	Money Key	24° 41.0'	81° 12.9'	+0	03	+1	17	*0.58	*0.58	0.76 0.95 0.54
3761	Little Duck Key, east end, Hawk Channel	24° 40.9'	81° 13.7'	-0	49	+0	05	*0.67	*0.67	0.88 1.10 0.60
3763	East Bahia Honda Key, south end, Florida Bay	24° 46.5'	81° 13.6'	+4	04	+2	49	*0.69	*0.69	0.90 1.12 0.77
3765	Cocoanut Key, Florida Bay	24° 44.7'	81° 14.2'	+3	52	+2	50	*0.55	*0.55	0.72 0.90 0.66
3767	West Bahia Honda Key	24° 46.8'	81° 16.3'	+3	59	+4	01	*0.97	*1.00	1.27 1.59 0.88
3769	Horseshoe Keys, south end	24° 46.0'	81° 17.0'	+3	54	+3	09	*0.86	*1.00	1.09 1.36 0.79
3771	Johnson Keys, south end	24° 44.6'	81° 18.0'	+3	36	+2	33	*0.72	*0.96	0.88 1.10 0.67
3773	Johnson Keys, north end	24° 46.0'	81° 19.4'	+3	35	+4	22	*1.31	*1.38	1.70 2.12 1.18
3775	Missouri Key-Little Duck Key Channel	24° 40.8'	81° 14.1'	-0	52	+0	36	*0.70	*0.46	0.98 1.22 0.60
3777	Missouri Key-Ohio Key Channel, west side	24° 40.4'	81° 14.6'	-0	47	-0	22	*0.77	*0.50	1.08 1.35 0.66
3779	Ohio Key-Bahia Honda Key Channel, west side	24° 40.2'	81° 15.1'	-0	57	-0	14	*0.81	*0.62	1.10 1.38 0.70
3781	Bahia Honda Key, Bahia Honda Channel	24° 39.3'	81° 16.9'	-0	46	-0	28	*0.86	*0.63	1.16 1.44 0.73
3783	Big Pine Key, Spanish Harbor	24° 38.9'	81° 19.8'	-0	44	-0	03	*0.75	*0.42	1.07 1.34 0.64
3785	Big Pine Key, Doctors Arm, Bogie Channel	24° 41.4'	81° 21.4'	+0	41	+1	47	*0.63	*0.71	0.80 1.00 0.57
3787	Big Pine Key, Bogie Channel Bridge	24° 41.9'	81° 20.9'	+2	10	+2	11	*0.65	*0.83	0.80 1.00 0.60
3789	No Name Key, east side, Bahia Honda Channel	24° 41.9'	81° 19.1'	+1	35	+1	33	*0.58	*0.83	0.70 0.88 0.55
3791	Little Pine Key, south end	24° 42.8'	81° 18.2'	+1	07	+1	07	*0.56	*0.79	0.68 0.85 0.53
3793	Porpoise Key, Big Spanish Channel	24° 43.1'	81° 21.1'	+3	23	+2	29	*0.72	*1.00	0.88 1.10 0.68
3795	Water Key, west end, Big Spanish Channel	24° 44.4'	81° 20.5'	+3	23	+2	37	*0.81	*1.04	1.00 1.25 0.75
3797	Mayo Key, Big Spanish Channel	24° 44.0'	81° 21.7'	+3	35	+3	01	*0.92	*1.08	1.17 1.46 0.85
3799	Little Pine Key, north end	24° 45.0'	81° 19.7'	+3	38	+3	28	*1.05	*1.21	1.33 1.66 0.96
3801	Big Pine Key, northeast shore	24° 43.7'	81° 23.2'	+3	19	+2	30	*0.86	*1.08	1.08 1.35 0.80
3803	Crawl Key, Big Spanish Channel	24° 45.4'	81° 21.5'	+3	34	+4	13	*1.33	*1.33	1.74 2.18 1.19
3805	Big Pine Key, north end	24° 44.7'	81° 23.7'	+4	24	+5	56	*0.96	*0.83	1.29 1.61 0.85
3807	Annette Key, north end, Big Spanish Channel	24° 45.5'	81° 23.4'	+3	30	+4	33	*1.44	*1.29	1.92 2.40 1.27
3809	Little Spanish Key, Spanish Banks	24° 46.5'	81° 22.2'	+3	25	+4	30	*1.74	*1.62	2.30 2.88 1.54
3811	Big Spanish Key	24° 47.3'	81° 24.7'	+3	19	+4	29	*1.97	*1.50	2.69 3.36 1.71
3813	Munson Island, Newfound Harbor Channel	24° 37.4'	81° 24.2'	-0	40	-0	12	*0.98	*0.67	1.36 1.70 0.84
3815	Ramrod Key, Newfound Harbor	24° 39.0'	81° 24.2'	-0	41	+0	05	*0.90	*0.50	1.28 1.60 0.76
3817	Middle Torch Key, Torch Ramrod Channel	24° 39.7'	81° 24.1'	-0	16	+1	29	*0.69	*0.38	0.98 1.22 0.58
3819	Little Torch Key, Torch Channel	24° 39.9'	81° 23.7'	+0	11	+1	45	*0.57	*0.33	0.80 1.00 0.48
3821	Big Pine Key, Newfound Harbor Channel	24° 39.1'	81° 22.5'	-0	09	+0	44	*0.82	*0.46	1.16 1.45 0.69
3823	Big Pine Key, Coupon Bight	24° 39.1'	81° 21.0'	-0	20	+0	49	*0.87	*0.50	1.19 1.48 0.72
3825	Little Torch Key, Pine Channel Bridge, south side	24° 39.9'	81° 23.3'	-0	15	+0	57	*0.68	*0.33	0.97 1.21 0.56
3827	Big Pine Key, Pine Channel Bridge, south side	24° 40.1'	81° 22.3'	-0	13	+1	03	*0.67	*0.33	0.96 1.20 0.56
3829	Big Pine Key, Pine Channel Bridge, north side	24° 40.2'	81° 22.1'	+0	03	+1	43	*0.57	*0.33	0.79 0.98 0.47
3831	Big Pine Key, west side, Pine Channel	24° 41.4'	81° 23.0'	+0	21	+1	52	*0.52	*0.42	0.71 0.89 0.45
3833	Howe Key, south end, Harbor Channel	24° 43.5'	81° 24.4'	+4	43	+4	49	*0.72	*0.62	0.96 1.20 0.63
3835	Big Torch Key, Harbor Channel	24° 44.3'	81° 26.6'	+3	47	+5	51	*1.58	*1.29	2.14 2.68 1.38
3837	Water Keys, south end, Harbor Channel	24° 44.8'	81° 27.0'	+3	42	+5	41	*1.52	*1.00	2.11 2.64 1.29
3839	Howe Key, northwest end	24° 45.5'	81° 25.7'	+3	29	+5	22	*1.68	*1.33	2.28 2.85 1.46
3841	Summerland Key, Niles Channel South	24° 39.1'	81° 26.1'	-0	36	+0	11	*0.85	*0.71	1.14 1.42 0.74
3843	Summerland Key, Niles Channel Bridge	24° 39.6'	81° 26.2'	-0	10	+0	56	*0.67	*0.58	0.90 1.12 0.59
3845	Ramrod Key, Niles Channel Bridge	24° 39.6'	81° 25.4'	-0	13	+1	12	*0.67	*0.46	0.93 1.16 0.58
3847	Big Torch Key, Niles Channel	24° 42.3'	81° 26.0'	+3	15	+2	05	*0.61	*0.71	0.77 0.96 0.56
3849	Knockemdown Key, north end	24° 42.9'	81° 28.7'	+3	30	+4	54	*1.35	*1.21	1.80 2.25 1.19
3851	Raccoon Key, east side	24° 44.5'	81° 29.0'	+3	20	+5	09	*1.50	*1.21	2.04 2.55 1.31
3853	Content Keys, Content Passage	24° 47.4'	81° 29.0'	+2	46	+3	49	*2.13	*1.83	2.79 3.46 1.84
3855	Key Lois, southeast end	24° 36.4'	81° 28.2'	-1	15	-0	45	*1.06	*0.75	1.46 1.82 0.91
3857	Sugarloaf Key, east side, Tarpon Creek	24° 37.7'	81° 30.6'	-0	41	+0	15	*0.89	*0.58	1.24 1.55 0.76
3859	Gopher Key, Cudjoe Bay	24° 38.5'	81° 29.1'	-0	46	+0	17	*0.90	*0.71	1.22 1.52 0.78
3861	Sugarloaf Key, Pirates Cove	24° 39.2'	81° 30.9'	-0	48	+1	41	*0.59	*0.75	0.74 0.92 0.55
3863	Cudjoe Key, Cudjoe Bay	24° 39.6'	81° 29.5'	-0	38	+0	41	*0.87	*0.71	1.18 1.48 0.76
3865	Summerland Key, southwest side, Kemp Channel	24° 39.0'	81° 26.8'	-0	26	+0	50	*0.81	*0.54	1.12 1.40 0.69
3867	Kemp Channel Viaduct, Hwy A1A bridge	24° 39.1'	81° 28.1'	+0	47	+2	04	*0.58	*0.46	0.77 0.95 0.50
3869	Cudjoe Key, Kemp Channel Bridge	24° 39.7'	81° 28.1'	---	---	---	---	*0.59	*0.50	0.79 0.99 0.52
3871	Cudjoe Key, northeast side, Kemp Channel	24° 41.2'	81° 29.0'	+3	45	---	---	---	---	---
3873	Cudjoe Key, north end, Kemp Channel	24° 42.0'	81° 30.3'	+3	33	+4	40	*1.61	*1.46	2.10 2.60 1.41
3875	Sugarloaf Key, northeast side, Bow Channel	24° 40.3'	81° 32.0'	+3	47	+3	24	*1.01	*0.71	1.40 1.75 0.87
3877	Cudjoe Key, Pirates Cove	24° 39.7'	81° 30.9'	+3	50	+2	54	*0.77	*0.79	0.98 1.21 0.68
3879	Sugarloaf Key, north end, Bow Channel	24° 41.6'	81° 33.3'	+3	37	+5	20	*1.29	*0.75	1.82 2.28 1.09
3881	Pumpkin Key, Bow Channel	24° 43.0'	81° 33.7'	+3	17	+4	39	*1.56	*1.17	2.14 2.68 1.35
3883	Sawyer Key, outside, Cudjoe Channel	24° 45.5'	81° 33.7'	+2	45	+5	24	*1.57	*0.50	2.32 2.90 1.28
3885	Sawyer Key, inside, Cudjoe Channel	24° 45.5'	81° 33.7'	+2	37	+5	19	*1.43	*0.50	2.10 2.62 1.17
3887	Johnston Key, southwest end, Turkey Basin	24° 42.6'	81° 35.6'	+3	26	+5	38	*1.10	*0.50	1.59 1.99 0.92

Endnotes can be found at the end of table 2.

TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Spring	
				High Water	Low Water	High Water	Low Water			
	FLORIDA Florida Keys-cont. Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft
				on Key West, p.172						
	<i>Upper Sugarloaf Sound</i>									
3889	Perky	24° 38.9'	81° 34.2'	+5 37	+8 25	*0.28	*0.08	0.42	0.52	0.23
3891	Park Channel Bridge	24° 39.3'	81° 32.4'	+5 47	+8 33	*0.26	*0.29	0.34	0.42	0.24
3893	North Harris Channel	24° 39.0'	81° 33.2'	+5 32	+8 04	*0.25	*0.25	0.33	0.41	0.22
3895	Sugarloaf Shores East <26>	24° 38.6'	81° 33.6'	---	---	---	---	---	---	---
3897	Tarpon Creek	24° 37.8'	81° 31.0'	-0 29	+0 17	*0.35	*0.38	0.46	0.58	0.32
	<i>Lower Sugarloaf Sound <27></i>									
3899	Sugarloaf Shores <27>	24° 38.0'	81° 33.1'	---	---	---	---	---	---	---
3901	Sugarloaf Beach <27>	24° 36.4'	81° 34.0'	---	---	---	---	---	---	---
3903	Sugarloaf Shores North <27>	24° 38.4'	81° 34.2'	---	---	---	---	---	---	---
3905	Saddlebunch Keys, south end <27>	24° 36.1'	81° 34.9'	---	---	---	---	---	---	---
3907	Lower Sugarloaf Channel Bridge <27>	24° 38.0'	81° 35.2'	---	---	---	---	---	---	---
3909	Saddlebunch Keys, Channel No. 2 <27>	24° 37.6'	81° 35.9'	---	---	---	---	---	---	---
3911	Saddlebunch Keys <27>	24° 37.1'	81° 36.1'	---	---	---	---	---	---	---
3913	Snipe Keys, southeast end, Inner Narrows	24° 39.5'	81° 36.5'	+3 25	+5 39	*1.28	*0.83	1.79	2.24	1.10
3915	Snipe Keys, Middle Narrows	24° 40.0'	81° 37.8'	+3 44	+5 54	*1.02	*0.67	1.42	1.78	0.87
3917	Snipe Keys, Snipe Point	24° 41.5'	81° 40.4'	+2 15	+3 33	*1.69	*1.29	2.31	2.89	1.47
3919	Waltz Key, Waltz Key Basin	24° 38.8'	81° 39.2'	+3 53	+5 33	*1.03	*0.96	1.36	1.70	0.91
3921	Duck Key Point, Duck Key, Waltz Key Basin	24° 37.4'	81° 41.1'	+3 27	+4 57	*1.19	*0.96	1.61	2.01	1.03
3923	O'Hara Key, north end, Waltz Key Basin	24° 37.0'	81° 38.7'	+3 53	+5 39	*1.03	*0.83	1.40	1.75	0.90
3925	Saddlebunch Keys, Channel No. 5	24° 36.7'	81° 37.5'	+4 32	+6 58	*0.66	*1.12	0.76	0.95	0.65
3927	Saddlebunch Keys, Channel No. 4	24° 36.9'	81° 37.0'	+4 35	+5 36	*0.54	*0.29	0.76	0.95	0.45
3929	Saddlebunch Keys, Channel No. 3	24° 37.4'	81° 36.2'	+1 44	-0 10	*0.43	*0.21	0.62	0.78	0.36
3931	Bird Key, Similar Sound	24° 35.3'	81° 38.3'	-0 21	+1 03	*0.59	*0.42	0.82	1.02	0.51
3933	Shark Key, southeast end, Similar Sound	24° 36.2'	81° 38.7'	+0 18	+1 51	*0.52	*0.46	0.70	0.88	0.46
3935	Saddlebunch Keys, Similar Sound	24° 36.0'	81° 37.3'	+0 39	+2 41	*0.37	*0.21	0.52	0.65	0.31
3937	Geiger Key, inside <26>	24° 35.0'	81° 39.3'	---	---	---	---	---	---	---
3939	Big Coppitt Key, northeast side, Waltz Key Basin	24° 36.1'	81° 39.3'	+4 21	+6 54	*0.84	*0.33	1.22	1.52	0.69
3941	Rockland Key, Rockland Channel Bridge	24° 35.5'	81° 40.1'	+5 02	+6 06	*0.76	*0.88	0.97	1.21	0.69
3943	Boca Chica Key, Long Point	24° 36.2'	81° 41.9'	+3 54	+5 22	*0.94	*0.71	1.28	1.60	0.81
3945	Channel Key, west side	24° 36.2'	81° 43.5'	+3 09	+3 07	*0.70	*0.71	0.91	1.14	0.62
3947	Boca Chica Marina	24° 34.5'	81° 42.5'	+0 20	+1 11	*0.66	*0.71	0.83	1.03	0.58
3949	Boca Chica Key, Southwest end	24° 33.8'	81° 42.8'	-0 14	+0 16	*0.66	*0.63	0.87	1.08	0.58
3951	Boca Chica Channel Bridge	24° 34.6'	81° 43.2'	+1 23	+1 29	*0.57	*0.67	0.72	0.90	0.52
3953	Key Haven - Stock Island Channel	24° 34.8'	81° 44.3'	+2 25	+2 57	*0.73	*0.79	0.94	1.18	0.66
3955	Cow Key Channel	24° 34.2'	81° 45.0'	+1 55	+2 05	*0.65	*0.71	0.82	1.01	0.58
3957	Sigsbee Park, Garrison Bight Channel	24° 35.1'	81° 46.5'	+1 59	+2 06	*0.81	*0.88	1.04	1.30	0.73
3959	Fleming Key, north end	24° 35.5'	81° 47.7'	+1 38	+1 54	*0.79	*0.79	1.01	1.25	0.69
3961	Riveria Canal, Key West	24° 33.9'	81° 45.1'	-0 12	+1 00	*0.65	*0.63	0.84	1.04	0.57
3963	Key West, south side, White Street Pier	24° 32.7'	81° 47.0'	-0 53	-0 31	*1.07	*0.92	1.41	1.75	0.92
3965	KEY WEST	24° 33.2'	81° 48.5'	---	---	---	---	1.28	1.65	0.88
3967	Sand Key Lighthouse, Sand Key Channel	24° 27.2'	81° 52.6'	-0 43	-0 32	*0.95	*0.88	1.23	1.53	0.83
3969	Garden Key, Dry Tortugas	24° 37.6'	82° 52.3'	+0 29	+0 33	*0.94	*1.33	1.14	1.42	0.89
3971	Loggerhead Key, Dry Tortugas	24° 37.9'	82° 55.2'	+0 19	+0 24	*0.91	*1.13	1.12	1.38	0.83
3973	Smith Shoal Light	24° 43.1'	81° 55.2'	+1 43	+2 20	*2.10	*2.37	2.63	3.44	1.88
	<i>Southern Gulf Coast</i>									
				on Naples, p. 176						
								MeanDiurnal		
3975	Cape Sable, East Cape	25° 07'	81° 05'	+1 33	+1 50	*1.30	*0.98	2.9	3.8	2.0
3977	Shark River entrance	25° 21'	81° 08'	+0 57	+1 45	*1.43	*0.98	3.6	4.5	2.4
3979	Whitewater Bay	25° 19'	81° 02'	+3 53	+4 38	*0.26	*0.33	0.5	0.8	0.4
3981	Lostmans River entrance	25° 33'	81° 13'	+1 09	+1 59	*1.33	*0.98	3.0	3.9	2.1
3983	Onion Key, Lostmans River	25° 37'	81° 08'	+3 09	+4 53	*0.26	*0.16	0.6	0.9	0.4
3985	Chatham River entrance	25° 41'	81° 17'	+0 59	+1 53	*1.43	*0.66	3.3	4.2	2.1
3987	Chokoloskee	25° 48.8'	81° 21.8'	+2 15	+3 14	*1.11	*0.62	2.53	3.18	1.63
3989	Everglades City, Barron River	25° 51.5'	81° 23.2'	+2 25	+3 26	*0.99	*0.57	2.26	2.84	1.47
3991	Indian Key	25° 48'	81° 28'	+0 55	+1 19	*1.48	*0.98	3.4	4.3	2.3
3993	Round Key	25° 50'	81° 32'	+0 54	+1 12	*1.48	*0.98	3.4	4.3	2.3
3995	Pumpkin Bay	25° 55'	81° 33'	+2 39	+3 07	*0.89	*0.49	2.1	2.7	1.3
3997	Marco Island, Caxambas Pass	25° 54.5'	81° 43.7'	+0 25	+0 18	*1.07	*0.98	2.22	3.05	1.70
3999	Coon Key	25° 53.8'	81° 38.2'	+1 06	+1 25	*1.34	*1.03	2.90	3.86	2.07
4001	Cape Romano	25° 51'	81° 41'	+0 43	+1 04	*1.19	*0.98	2.6	3.5	1.9
4003	Marco, Big Marco River	25° 58.3'	81° 43.7'	+1 00	+0 46	*0.98	*0.85	2.04	2.78	1.53
4005	Mclvanine Bay	25° 59.1'	81° 42.1'	+1 39	+1 55	*0.90	*0.75	1.92	2.61	1.41
4007	Keewaydin Island (inside)	26° 01.5'	81° 46.1'	+0 58	+0 55	*0.90	*0.78	1.90	2.61	1.42
4009	Naples, Naples Bay, north end	26° 08.2'	81° 47.3'	+0 43	+0 56	*0.97	*0.90	2.06	2.85	1.58
4011	NAPLES (outer coast)	26° 07.8'	81° 48.4'	---	---	---	---	2.01	2.87	1.61
4013	Wiggins Pass, Cocohatchee River	26° 17.4'	81° 49.1'	+0 44	+0 59	*0.77	*0.73	1.59	2.26	1.23
4015	Cocohatchee River, U.S. 41 bridge	26° 16.9'	81° 48.1'	+1 10	+1 28	*0.74	*0.65	1.54	2.18	1.17
				on St. Petersburg, p.180						
	<i>Estero Bay</i>									
4017	Little Hickory Island	26° 21'	81° 51'	-0 58	-1 05	*1.09	*1.09	---	2.5	1.3
4019	Coconut Point	26° 24.0'	81° 50.6'	-1 21	-0 44	*1.12	*1.21	1.75	2.48	1.34
4021	Carlos Point	26° 24'	81° 53'	-1 08	-1 28	*1.17	*1.17	---	2.7	1.4
4023	Estero River	26° 25.8'	81° 51.4'	-0 45	-0 10	*1.09	*1.11	1.74	2.45	1.29
4025	Hendry Creek	26° 28.2'	81° 52.6'	-0 25	+0 28	*0.89	*0.68	1.51	2.06	1.01
4027	Estero Island	26° 26.3'	81° 55.1'	-1 08	-0 43	*1.14	*1.30	1.77	2.52	1.37
4029	Matanzas Pass (fixed bridge) Estero Island	26° 27'	81° 57'	-1 10	-1 34	*1.22	*1.22	---	2.8	1.4
4031	Point Ybel, San Carlos Bay entrance	26° 27'	82° 01'	-1 50	-1 12	*1.21	*1.21	---	2.6	1.4
4033	Punta Rassa, San Carlos Bay	26° 29.3'	82° 00.8'	-1 06	-0 59	*1.02	*1.26	1.54	2.26	1.25

Endnotes can be found at the end of table 2.

TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Diurnal	
				High Water	Low Water	High Water	Low Water			
	FLORIDA Southern Gulf Coast-cont. Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft
				on St. Petersburg, p.180						
	<i>Caloosahatchee River</i>									
4035	Iona Shores	26° 31'	81° 58'	+1 08	+1 40	*0.43	*0.43	--	1.0	0.5
4037	Cape Coral Bridge	26° 34'	81° 56'	+1 15	+2 02	*0.43	*0.43	--	1.0	0.5
4039	Fort Myers	26° 38.8'	81° 52.3'	+1 56	+2 23	*0.56	*0.39	0.95	1.32	0.63
4041	Tarpon Bay, Sanibel Island	26° 26.6'	82° 04.9'	-0 46	-0 18	*1.02	*1.18	1.57	2.27	1.23
4043	St. James City, Pine Island	26° 30'	82° 05'	-0 30	-0 44	*1.04	*1.04	--	2.4	1.2
4045	Galt Island, Pine Island Sound	26° 31'	82° 06'	-0 25	+0 16	*0.91	*0.91	--	2.1	1.1
4047	Captiva Island (outside)	26° 29'	82° 11'	-2 20	-2 28	*1.13	*1.13	--	2.6	1.3
4049	Captiva Island, Pine Island Sound	26° 31'	82° 11'	-0 46	-0 20	*0.91	*0.91	--	2.1	1.1
4051	North Captiva Island	26° 36.3'	82° 12.1'	-1 42	-1 17	*0.92	*0.71	1.54	2.02	1.05
4053	Redfish Pass, Captiva Island (north end)	26° 33'	82° 12'	-0 55	-1 14	*0.91	*0.91	--	2.1	1.0
4055	Tropical Homesites Landing, Pine Island	26° 33'	82° 05'	-0 08	+0 22	*0.87	*0.87	--	2.0	1.0
4057	Matlacha Pass (bascule bridge)	26° 38'	82° 04'	+0 43	+1 28	*0.83	*0.83	--	1.9	1.0
4059	Pineland, Pine Island	26° 40'	82° 09'	-0 19	+0 26	*0.83	*0.83	--	1.9	0.9
	<i>Charlotte Harbor</i>									
4061	Port Boca Grande	26° 43.1'	82° 15.5'	-0 50	-1 42	*0.67	*1.03	0.93	1.56	0.86
4063	Bokeelia	26° 42.4'	82° 09.8'	-0 35	-0 09	*0.80	*0.63	1.34	1.73	0.91
4065	Turtle Bay	26° 47.8'	82° 11.0'	+0 51	+0 35	*0.69	*0.95	1.02	1.56	0.86
4067	Punta Gorda	26° 56'	82° 04'	+1 06	+1 27	*0.83	*0.83	--	1.9	1.0
4069	Shell Point (Harbor Heights), Peace River	26° 59.3'	81° 59.6'	+1 42	+2 10	*0.89	*0.89	1.32	2.02	1.10
4071	Locust Point, Hog Island	26° 55.8'	82° 08.2'	+1 15	+1 27	*0.82	*0.82	1.22	1.95	1.03
4073	El Jobean, Myakka River	26° 58'	82° 13'	+1 38	+1 56	*0.83	*0.83	--	1.9	1.0
4075	Myakka River, US 41 bridge	27° 02.7'	82° 17.6'	+2 48	+3 01	*0.83	*0.97	1.31	1.90	1.00
4077	Placida, Gasparilla Sound	26° 50.0'	82° 15.9'	-0 43	-0 56	*0.59	*0.94	0.82	1.41	0.77
4079	Don Pedro Island State Park, Cutoff (south)	26° 51.3'	82° 18.2'	-0 54	-0 53	*0.63	*0.84	0.91	1.49	0.78
4081	Englewood, Lemon Bay	26° 56.0'	82° 21.2'	-0 17	-0 17	*0.66	*0.82	1.00	1.57	0.81
4083	Manasota, Lemon Bay	27° 00.7'	82° 24.6'	-0 24	-0 11	*0.70	*0.89	1.05	1.68	0.86
4085	Venice Municipal Airport	27° 04.3'	82° 27.2'	-2 33	-2 43	*0.97	*0.97	1.56	2.20	1.15
4087	Venice Inlet (inside)	27° 07'	82° 28'	-2 02	-1 38	*0.91	*0.91	--	2.1	1.1
4089	Sarasota, Sarasota Bay	27° 20'	82° 33'	-1 38	-0 58	*0.91	*0.91	--	2.1	1.1
4091	Cortez, Sarasota Bay	27° 28'	82° 41'	-2 00	-1 25	*0.96	*0.96	--	2.2	1.1
	Tampa Bay									
4093	Egmont Key, Egmont Channel	27° 36.1'	82° 45.6'	-2 15	-3 20	*0.96	*1.00	--	2.16	1.14
4095	Anna Maria Key, Bradenton Beach	27° 29.8'	82° 42.8'	-2 27	-3 32	*0.99	*1.00	1.58	2.25	1.17
4097	Anna Maria Key, city pier	27° 32.0'	82° 43.8'	-2 10	-2 19	*0.99	*0.99	--	2.22	1.11
4099	Bradenton, Manatee River	27° 30'	82° 34'	-1 24	-0 55	*0.97	*0.95	--	2.3	1.2
4101	Redfish Point, Manatee River	27° 32'	82° 29'	-0 30	+0 14	*0.92	*1.00	--	2.2	1.1
4103	Mullet Key Channel (Skyway)	27° 36.9'	82° 43.6'	-2 03	-2 01	*0.92	*0.92	1.48	2.08	1.09
4105	Port Manatee	27° 38.2'	82° 33.8'	-1 00	-0 48	*0.97	*0.95	1.56	2.19	1.14
4107	Shell Point	27° 43'	82° 29'	+0 08	+0 17	*0.91	*0.91	--	2.3	1.2
4109	Little Manatee River, US 41 Bridge	27° 42.3'	82° 26.9'	+0 51	+1 15	*0.91	*0.68	1.55	1.99	1.03
4111	Point Pinellas	27° 42'	82° 38'	-0 22	-0 29	*0.86	*0.86	--	2.0	1.0
4113	ST. PETERSBURG	27° 46.4'	82° 37.3'					1.59	2.26	1.18
4115	Apollo Beach	27° 47.2'	82° 25.6'	-0 53	-0 32	*1.10	*1.18	1.72	2.46	1.31
4117	Newman Branch	27° 47.0'	82° 24.4'	-0 02	+0 12	*1.17	*1.11	1.89	2.61	1.37
4119	Ballast Point	27° 53.4'	82° 28.8'	+0 20	+0 23	*1.22	*1.16	1.98	2.73	1.43
4121	Pendola Point, Hillsborough Bay	27° 53.9'	82° 25.6'	+0 21	+0 05	*1.14	*1.18	1.81	2.61	1.36
4123	Davis Island, Hillsborough Bay	27° 54.5'	82° 27.1'	+0 03	+0 32	*1.16	*1.24	1.82	2.63	1.38
4125	McKay Bay entrance	27° 54.8'	82° 25.5'	+0 02	+0 28	*1.19	*1.26	1.89	2.69	1.42
4127	Old Port Tampa	27° 51.5'	82° 33.2'	+0 25	+0 39	*1.10	*1.18	1.73	2.48	1.31
4129	Gandy Bridge, Old Tampa Bay	27° 53.6'	82° 32.3'	+0 59	+0 57	*1.12	*1.24	1.75	2.55	1.35
4131	Bay Aristocrat Village, Old Tampa Bay	27° 56.5'	82° 43.2'	+1 01	+1 32	*1.24	*1.37	1.95	2.81	1.49
4133	Safety Harbor, Old Tampa Bay	27° 59.3'	82° 41.1'	+1 32	+1 34	*1.23	*1.39	1.91	2.79	1.48
4135	Mobbly Bayou	28° 01.3'	82° 39.3'	+2 38	+2 54	*0.71	*0.45	1.24	1.77	0.79
	<i>Boca Ciega Bay</i>									
4137	Pass-a-Grille Beach	27° 41'	82° 44'	-1 34	-1 30	*0.87	*0.87	--	2.1	1.0
4139	Gulfport	27° 44'	82° 42'	-1 32	-1 05	*0.96	*0.96	--	2.3	1.2
4141	Long Key, 0.5mi N. of Corey Causeway	27° 44.7'	82° 44.8'	-1 18	-0 44	*0.92	*1.00	--	2.2	1.1
4143	Johns Pass	27° 47'	82° 47'	-2 14	-2 04	*0.97	*1.02	--	2.3	1.2
4145	Madeira Beach Causeway	27° 48.5'	82° 47.7'	-1 32	-1 45	*1.08	*1.18	--	2.42	1.29
	Northern Gulf Coast									
				on Cedar Key, p.184						
4147	Indian Rocks Beach (inside)	27° 52'	82° 51'	-0 57	-0 53	*0.65	*0.63	1.8	2.6	1.3
4149	Clearwater	27° 57'	82° 48'	-1 48	-1 35	*0.65	*0.63	1.8	2.6	1.3
4151	Clearwater Beach	27° 58.7'	82° 49.9'	-2 07	-2 19	*0.69	*0.84	1.87	2.74	1.46
4153	Dunedin, St. Joseph Sound	28° 01'	82° 48'	-1 50	-1 45	*0.70	*0.79	1.9	2.8	1.4
4155	Anclote Key, southern end	28° 09.9'	82° 50.6'	-2 16	-2 11	*0.88	*0.60	2.65	3.32	1.71
4157	Anclote, Anclote River	28° 10.3'	82° 47.1'	-1 28	-1 24	*0.78	*0.87	2.16	3.07	1.63
4159	Tarpon Springs, Anclote River	28° 09.6'	82° 46.1'	-1 16	-1 03	*0.77	*0.83	2.10	3.00	1.57
4161	North Anclote Key	28° 12.6'	82° 50.4'	-1 55	-1 38	*0.80	*0.86	2.20	3.11	1.64
4163	Gulf Harbors	28° 14.6'	82° 45.8'	-1 15	-0 52	*0.84	*0.90	2.30	3.26	1.72
4165	Hwy. 19 bridge, Pithlachascotee River	28° 16.1'	82° 43.6'	-1 16	-0 40	*0.85	*0.84	2.36	3.27	1.71
4167	New Port Richey, Pithlachascotee River	28° 14.9'	82° 43.4'	-0 58	-0 11	*0.88	*0.87	2.44	3.40	1.77
4169	Hudson, Hudson Creek	28° 21.7'	82° 42.6'	-1 12	-1 02	*0.91	*0.89	2.53	3.48	1.82
4171	Aripeka, Hammock Creek	28° 26.0'	82° 40.1'	-0 37	+0 23	*0.81	*0.63	2.37	3.15	1.58
4173	Hernando Beach, Rocky Creek, Little Pine I. Bay	28° 29.2'	82° 39.7'	-0 20	+0 58	*0.83	*0.83	2.16	--	--
4175	Bayport	28° 32.0'	82° 39.0'	-0 01	+0 43	*0.80	*0.71	2.33	3.16	1.61
4177	Johns Island, Chassahowitzka Bay	28° 41.5'	82° 38.3'	+1 09	+2 14	*0.62	*0.49	1.81	2.53	1.22
4179	Chassahowitzka, Chassahowitzka River	28° 42.9'	82° 34.6'	+3 09	+5 45	*0.14	*0.16	0.39	0.60	0.30
4181	Mason Creek, Homosassa Bay	28° 45.7'	82° 38.3'	+3 59	+4 44	*0.32	*0.25	0.96	1.35	0.64
4183	Tuckers Island, Homosassa River	28° 46.3'	82° 41.7'	+1 26	+2 23	*0.47	*0.33	1.38	1.92	0.90

Endnotes can be found at the end of table 2.

TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level		
		Latitude	Longitude	Time		Height		Mean	Diurnal			
				High Water	Low Water	High Water	Low Water					
	FLORIDA Northern Gulf Coast-cont. Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft		
				on Cedar Key, p.184								
4185	Halls River bridge, Homosassa River	28° 48.0'	82° 36.2'	+4	30	+5	41	*0.16	*0.13	0.45	0.72	0.30
4187	Ozello, St. Martins River	28° 49.5'	82° 39.5'	+4	25	+5	21	*0.17	*0.14	0.49	0.74	0.33
4189	Mangrove Pt., Crystal Bay	28° 52.2'	82° 43.4'	+0	22	+0	41	*0.95	*0.76	2.82	3.65	1.89
4191	Ozello north, Crystal Bay	28° 51.8'	82° 40.0'	+1	25	+3	17	*0.50	*0.25	1.53	2.03	0.93
4193	Dixie Bay, Salt River, Crystal Bay	28° 52.9'	82° 38.1'	+2	00	+3	06	*0.55	*0.33	1.66	2.15	1.04
	<i>Crystal River</i>											
4195	Florida Power	28° 57.6'	82° 43.5'	-0	03	+0	30	*1.04	*0.89	3.00	3.90	2.06
4197	Shell Island, north end	28° 55.4'	82° 41.5'	+0	36	+1	30	*0.79	*0.59	2.32	3.01	1.53
4199	Twin Rivers Marina	28° 54.3'	82° 38.3'	+1	46	+2	30	*0.64	*0.49	1.90	2.53	1.26
4201	Kings Bay	28° 53.9'	82° 35.9'	+2	20	+3	07	*0.59	*0.41	1.76	2.31	1.14
4203	Withlacoochee River entrance	29° 00'	82° 46'	+0	07	+0	55	*0.91	*0.95	2.5	3.5	1.8
4205	CEDAR KEY	29° 08.1'	83° 01.9'	<i>Daily predictions</i>				2.83	3.80	2.05		
4207	Suwannee River entrance	29° 17'	83° 09'	+0	06	+0	18	*0.88	*0.95	2.4	3.4	1.8
4209	Suwannee, Salt Creek	29° 19.7'	83° 09.1'	-0	07	+0	24	*0.91	*0.83	2.65	3.47	1.84
4211	Horseshoe Point	29° 26.2'	83° 17.6'	-0	21	+0	08	*0.95	*0.94	2.69	3.58	1.94
4213	Pepperfish Keys	29° 30'	83° 22'	+0	12	+0	24	*0.88	*0.95	2.4	3.4	1.8
4215	Steinhatchee River ent., Deadman Bay	29° 40.3'	83° 23.4'	+0	02	+0	00	*1.03	*1.08	2.87	3.83	2.12
				on St. Marks River Ent., p.188								
4217	Fishermans Rest	29° 44'	83° 32'	-0	14	-0	02	*0.93	*0.86	2.4	3.4	1.8
4219	Spring Warrior Creek	29° 55.2'	83° 40.3'	-0	25	-0	06	*0.98	*0.84	2.68	3.46	1.86
4221	Rock Islands	29° 58'	83° 50'	-0	03	+0	04	*0.93	*0.91	2.4	3.3	1.8
	<i>Apalachee Bay</i>											
4223	Mandalay, Aucilla River	30° 07.6'	83° 58.5'	+0	25	+0	57	*0.69	*0.55	1.92	2.47	1.30
4225	ST. MARKS RIVER ENTRANCE	30° 04.7'	84° 10.7'	<i>Daily predictions</i>				2.63	3.49	1.94		
4227	St. Marks, St. Marks River	30° 09'	84° 12'	+0	36	+1	04	*0.93	*0.91	2.4	3.3	1.8
4229	Shell Point, Walker Creek	30° 03.6'	84° 17.4'	-0	03	-0	03	*1.02	*1.08	2.65	3.56	2.00
4231	Bald Point, Ochlockonee Bay	29° 56.9'	84° 20.5'	+0	33	+0	19	*0.85	*0.70	2.28	3.07	1.60
4233	Panacea, Dickerson Bay	30° 01.7'	84° 23.2'	+0	16	+0	20	*1.01	*0.82	2.73	3.66	1.90
4235	Alligator Point, St. James Island	29° 54.2'	84° 24.8'	-0	08	+0	11	*0.75	*0.73	1.95	2.82	1.45
4237	Turkey Point, St. James Island	29° 54.9'	84° 30.7'	-0	16	-0	21	*0.78	*0.98	1.92	2.74	1.57
				on Apalachicola, p.192								
	<i>St. George Sound</i>											
4239	Dog Island, east end	29° 48.6'	84° 35.1'	-1	43	-2	00	*1.50	*1.40	1.70	2.46	1.41
4241	Dog Island, west end	29° 47'	84° 40'	-1	53	-2	38	*1.73	*1.40	--	2.6	1.3
4243	Lanark	29° 52.7'	84° 35.7'	-1	38	-1	48	*1.60	*1.53	1.81	2.62	1.51
4245	Carrabelle, Carrabelle River	29° 51'	84° 40'	-1	25	-2	13	*1.60	*1.60	--	2.6	1.3
4247	South Carabelle Beach	29° 48.1'	84° 44.2'	-1	16	-1	21	*1.50	*1.53	1.66	2.46	1.44
4249	St. George Island, Northeast End	29° 46.0'	84° 42.0'	+0	13	+0	05	*1.36	*1.25	1.56	2.20	1.28
4251	St. George Island, East End	29° 41.2'	84° 47.2'	-2	02	-2	48	*1.13	*1.00	--	1.9	1.1
4253	St. George Island, Rattlesnake Cove	29° 41.5'	84° 47.5'	-1	00	-1	35	*1.33	*1.20	--	2.2	1.3
4255	St. George Island, 12th St. W (Bayside)	29° 39'	84° 54'	-0	55	-1	08	*1.26	*1.26	--	2.2	1.1
4257	St. George Island, Sikes Cut	29° 36.8'	84° 57.5'	+0	07	+0	07	*1.15	*1.30	1.22	1.97	1.13
	<i>Apalachicola Bay</i>											
4259	Cat Point	29° 43'	84° 53'	-0	40	-1	17	*1.07	*0.60	--	2.2	1.1
4261	White Beach, East Bay	29° 47.1'	84° 53.9'	-0	11	+0	10	*1.21	*1.40	1.27	1.98	1.19
4263	APALACHICOLA	29° 43.6'	84° 58.9'	<i>Daily predictions</i>				1.11	1.61	0.96		
4265	Apalachicola River (A&N RR bridge)	29° 45.8'	85° 02.0'	+0	28	+0	35	*0.85	*0.83	0.97	1.39	0.81
4267	Huckleberry Landing, Jackson River	29° 46.2'	85° 05.1'	+2	07	+1	52	*0.73	*0.95	0.72	1.21	0.74
4269	Lower Anchorage	29° 36'	85° 03'	-0	17	-0	35	*0.93	*1.00	--	1.5	0.8
4271	West Pass, St. Vincent Island	29° 38'	85° 06'	-0	27	-0	27	*0.87	*1.00	--	1.4	0.7
4273	Eleven Mile, St. Vincent Sound	29° 42.4'	85° 09.2'	+1	44	+1	31	*1.02	*1.03	1.12	1.67	0.97
				on Pensacola, p.196								
	<i>St. Joseph Bay</i>											
4275	Port Saint Joe #	29° 48.9'	85° 18.8'	-1	06	-1	45	*1.11	*1.11	1.15	1.65	0.78
4277	St. Joseph Point #	29° 52.4'	85° 23.4'	-2	17	-2	48	*1.02	*1.02	1.17	1.56	0.67
4279	White City, ICWW #	29° 52.8'	85° 13.3'	-0	40	+1	31	*0.77	*0.77	0.86	1.01	0.52
	Time meridian, 90° W											
	<i>St. Andrew Bay</i>											
4281	Channel entrance #	30° 07.5'	85° 43.8'	-1	39	-1	50	*1.02	*1.02	1.20	1.29	0.67
4283	Panama City #	30° 09.1'	85° 40.0'	-0	57	-1	11	*1.05	*1.66	1.25	1.34	0.7
4285	Panama City Beach (outside) #	30° 12.8'	85° 52.7'	-2	17	-2	44	*1.05	*1.05	1.22	1.37	0.68
4287	Parker #	30° 08'	85° 37'	-0	05	+0	22	*1.20	*1.20	--	1.5	0.7
4289	Laird Bayou, East Bay #	30° 07.3'	85° 32.7'	-0	28	-1	05	*1.13	*1.13	1.28	1.47	0.75
4291	Farmdale, East Bay #	30° 01.0'	85° 28.2'	-0	16	-0	59	*1.17	*1.17	1.31	1.56	0.78
4293	Allanton, East Bay #	30° 01.8'	85° 27.9'	-0	16	-1	01	*1.15	*1.15	1.30	1.53	0.76
4295	Wetappo Creek, East Bay #	30° 02'	85° 24'	+1	01	+1	40	*1.10	*1.10	--	1.4	0.7
4297	Overstreet, East Bay #	29° 59.8'	85° 22.2'	+0	17	+0	04	*1.20	*1.20	1.34	1.58	0.82
4299	Alligator Bayou #	30° 10.2'	85° 45.3'	-0	47	-1	10	*1.07	*1.07	1.25	1.37	0.68
4301	Lynn Haven, North Bay #	30° 15.3'	85° 38.9'	-0	31	-1	01	*1.10	*1.10	1.25	1.47	0.73
4303	West Bay Creek, West Bay #	30° 17.6'	85° 51.5'	-0	10	-0	47	*1.13	*1.13	1.30	1.46	0.74
	<i>Choctawhatchee Bay <11></i>											
4305	East Pass (Destin)	30° 23.7'	86° 30.8'	-0	33	-0	34	*0.49	*0.33	0.59	0.61	0.31
4307	Shalimar, Garnier Bayou #	30° 26.1'	86° 35.2'	+3	33	+3	03	*0.32	*0.32	0.36	0.41	0.21
4309	Harris, The Narrows#	30° 24'	86° 44'	+1	37	+2	51	*1.10	*1.10	--	1.4	0.7
4311	Navarre Beach	30° 22.6'	86° 51.9'	-2	07	-2	26	*1.07	*1.67	1.26	1.38	0.69
4313	Fishing Bend, Santa Rosa Sound #	30° 20'	87° 08'	+0	41	+0	51	*1.10	*1.10	--	1.4	0.7

Endnotes can be found at the end of table 2.

TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Diurnal	
				High Water	Low Water	High Water	Low Water			
	FLORIDA Northern Gulf Coast-cont. Time meridian, 90° W	North	West	h	m	h	m	ft	ft	ft
				on Pensacola, p.196						
	<i>Pensacola Bay</i>									
4315	Entrance #	30° 20'	87° 19'	-1 23	-0 34	*0.80	*0.80	--	1.1	0.5
4317	Warrington, 2 miles south of #	30° 21'	87° 16'	-0 27	-0 30	*1.00	*1.00	--	1.3	0.6
4319	PENSACOLA #	30° 24.2'	87° 13.8'	<i>Daily predictions</i>				1.20	1.26	0.63
4321	Hernandez Point, Escambia Bay #	30° 27.3'	87° 06.0'	+0 52	+0 51	*1.02	*1.02	1.16	1.30	0.65
4323	Lora Point, Escambia Bay #	30° 30.9'	87° 09.7'	+0 20	+0 02	*1.10	*1.10	1.30	1.41	0.70
4325	Floridatown, Escambia Bay #	30° 34.9'	87° 10.8'	+0 45	+0 34	*1.13	*1.13	1.29	1.45	0.75
4327	Holley, East Bay #	30° 27.0'	86° 55.1'	+0 19	-0 11	*1.15	*1.15	1.37	1.50	0.74
4329	Bay Point, Blackwater River #	30° 34'	87° 00'	+1 23	+1 27	*1.20	*1.20	--	1.6	0.8
4331	Sheild Point, Blackwater River #	30° 34.9'	87° 00.9'	+0 42	+0 10	*1.21	*1.21	1.39	1.59	0.79
4333	Milton, Blackwater River #	30° 37'	87° 02'	+1 40	+1 47	*1.20	*1.20	--	1.6	0.8
4335	Hawkins Rec. Park, Blackwater River #	30° 38.2'	87° 01.7'	+0 59	+0 22	*1.24	*1.24	1.41	1.66	0.83
4337	Woodlawn Beach, Santa Rosa Sound #	30° 23.2'	86° 59.5'	+0 49	+0 58	*1.07	*0.67	1.29	1.36	0.67
4339	Big Lagoon #	30° 19.6'	87° 21.4'	-0 25	+0 09	*0.84	*0.84	0.99	1.02	0.53
	<i>Perdido Bay</i>									
4341	Blue Angels Park #	30° 23.2'	87° 25.7'	+2 36	+4 00	*0.58	*0.58	0.71	0.73	0.35
4343	Nix Point #	30° 23.6'	87° 25.5'	+2 29	+3 37	*0.57	*0.33	0.69	0.71	0.35
4345	Millview #	30° 25.1'	87° 21.4'	+2 33	+4 33	*0.67	*0.67	0.82	0.85	0.41
4347	Alabama Point, Perdido Pass, Alabama	30° 16.7'	87° 33.3'	-1 26	-1 24	*0.67	*0.67	0.78	0.86	0.42
	ALABAMA			on Mobile, p.204						
4349	Mobile Point (Fort Morgan) #	30° 14'	88° 01'	-1 46	-1 32	*0.80	*0.80	--	1.2	0.6
4351	DAUPHIN ISLAND #	30° 15.0'	88° 04.5'	<i>Daily predictions, p.200</i>				1.18	1.20	0.60
4353	Gulf Shores, ICWW #	30° 16.8'	87° 41.1'	-0 41	-0 16	*0.75	*0.90	1.03	1.15	0.60
4355	Bon Secour, Bon Secour River #	30° 18'	87° 44'	-1 13	-1 17	*1.07	*1.07	--	1.6	0.8
4357	East Fowl River, Hwy 193 bridge, Mobile Bay #	30° 26.6'	88° 06.8'	-0 53	-0 58	*0.88	*0.30	1.28	1.36	0.68
4359	West Fowl River, Hwy 188 bridge #	30° 22.6'	88° 09.5'	-2 00	-2 01	*0.94	*1.48	1.33	1.61	0.79
4361	Point Clear, Mobile Bay #	30° 29.2'	87° 56.1'	-1 03	-0 34	*1.00	*1.00	1.50	1.52	0.77
4363	Dog River, Hwy 163 bridge, Mobile Bay #	30° 33.9'	88° 05.2'	-0 38	-0 47	*0.93	*0.60	1.39	1.44	0.72
4365	Meaher State Park, Mobile Bay #	30° 40.0'	87° 56.1'	-0 38	+0 25	*1.03	*0.50	1.48	1.54	0.79
4367	Coast Guard Station, Mobile Bay #	30° 38.9'	88° 03.5'	-0 38	-0 38	*1.03	*0.90	1.45	1.63	0.82
4369	MOBILE, Mobile River (State Dock) #	30° 42.3'	88° 02.4'	<i>Daily predictions</i>				1.38	1.61	0.80
4371	William Brooks Park, Chickasaw Creek #	30° 46.9'	88° 04.4'	-0 05	-0 07	*0.99	*1.00	1.39	1.56	0.79
4373	Lower Hall Landing, Tensaw River #	30° 49'	87° 55'	+2 16	+3 05	*0.87	*0.87	--	1.3	0.6
				on South Pass, p.208						
4375	Bayou La Batre, Mississippi Sound #	30° 22'	88° 16'	+1 52	+1 14	*1.23	*1.23	--	1.5	0.8
4377	Bayou La Batre, Hwy 188 Bridge #	30° 24.3'	88° 14.8'	+1 29	+0 56	*1.28	*1.28	1.46	1.60	0.82
	MISSISSIPPI									
4379	Grand Bay NERR #	30° 24.8'	88° 24.2'	+1 38	+0 54	*1.25	*1.25	1.37	1.59	0.81
4381	Point of Pines, Bayou Cumbest #	30° 23.2'	88° 26.4'	+1 49	+1 09	*1.25	*1.25	1.37	1.62	0.81
4383	Hollingsworth Point, Davis Bayou #	30° 23.2'	88° 46.4'	+2 24	+1 52	*1.42	*1.42	1.59	1.80	0.91
4385	Petit Bois Island, Mississippi Sound #	30° 12.2'	88° 26.5'	+1 14	+0 41	*1.18	*1.18	1.37	1.47	0.73
4387	Horn Island, Mississippi Sound #	30° 14.3'	88° 40.0'	+1 34	+0 59	*1.25	*1.25	1.38	1.60	0.81
4389	Ship Island, Mississippi Sound #	30° 12.8'	88° 58.3'	+1 48	+1 05	*1.32	*1.32	1.49	1.60	0.83
4391	Port of Pascagoula, Dock E #	30° 20.8'	88° 30.3'	+1 08	+0 44	*1.22	*1.22	1.37	1.55	0.78
4393	Pascagoula, Mississippi Sound #	30° 20.4'	88° 32.0'	+1 20	+0 48	*1.21	*1.21	1.37	1.53	0.86
4395	Graveline Bayou Entrance #	30° 21.7'	88° 39.8'	+1 43	+1 04	*1.29	*1.29	1.44	1.63	0.82
4397	Gulfport Harbor, Mississippi Sound #	30° 21.6'	89° 04.9'	+2 09	+1 09	*1.29	*1.29	1.38	1.64	0.86
4399	Biloxi (Cadet Point), Biloxi Bay #	30° 23.4'	88° 51.4'	+2 04	+1 30	*1.38	*1.38	1.55	1.76	0.88
4401	Turkey Creek, Bernard Bayou #	30° 25.6'	89° 03.2'	+3 23	+2 27	*1.54	*1.54	1.65	2.00	1.02
4403	Handsboro Bridge, Bernard Bayou #	30° 24.4'	89° 01.6'	+3 40	+2 06	*1.53	*1.53	1.64	1.98	1.01
4405	Cat Island #	30° 13.9'	89° 07.0'	+2 13	+2 00	*1.23	*1.23	1.39	1.57	0.78
4407	Pass Christian Yacht Club, Mississippi Sound #	30° 18.6'	89° 14.7'	+2 36	+2 04	*1.37	*1.37	1.53	1.73	0.87
4409	Wolf River, Henderson Avenue bridge	30° 21.5'	89° 16.4'	+3 18	+2 51	*1.36	*1.36	1.47	1.80	0.90
4411	St. Louis Bay entrance #	30° 19.5'	89° 19.5'	+3 17	+2 57	*1.36	*1.36	1.52	1.73	0.87
4413	Waveland #	30° 16.9'	89° 22.0'	+3 09	+2 49	*1.28	*1.28	1.44	1.60	0.81
4415	Pearlington, Pearl River #	30° 14.4'	89° 36.9'	+5 51	+5 31	*0.99	*0.99	1.15	1.23	0.62
	LOUISIANA									
4417	The Rigolets #	30° 09.9'	89° 44.4'	+6 22	+5 35	*0.64	*0.50	0.76	0.79	0.39
4419	Bayou BonFouca, Route 433 #	30° 16.3'	89° 47.6'	+11 12	+11 31	*0.43	*0.43	0.53	0.53	0.26
4421	Tchefuncta River, Lake Pontchartrain	30° 22.7'	90° 09.6'	+11 36	+12 21	*0.48	*0.48	0.57	0.57	0.28
4423	New Canal USCG station, Lake Pontchartrain	30° 01.6'	90° 06.8'	+11 47	+12 09	*0.43	*0.43	0.51	0.52	0.26
4425	Chef Menteur, Chef Menteur Pass #	30° 03.9'	89° 48.0'	+6 25	+6 27	*0.88	*0.88	0.97	1.06	0.56
4427	Michoud Substation, ICWW #	30° 00.4'	89° 56.2'	+6 37	+6 22	*1.09	*1.09	1.23	1.39	0.70
4429	Shell Beach, Lake Borgne #	29° 52.0'	89° 40.3'	+5 34	+5 13	*1.17	*1.17	1.35	1.45	0.73
4431	Grand Pass #	30° 07.6'	89° 13.3'	+3 01	+2 36	*1.18	*1.18	1.14	1.47	0.73
4433	Chandeleur Light #	30° 03'	88° 52'	+1 50	+1 54	*0.98	*0.98	--	1.2	0.6
4435	Comfort Island #	29° 49.4'	89° 16.2'	+2 47	+2 14	*1.28	*1.28	1.45	1.57	0.80
4437	Bay Gardene #	29° 35.9'	89° 37.1'	+4 04	+4 04	*1.16	*1.16	1.34	1.44	0.75
4439	Breton Islands #	29° 29.6'	89° 10.4'	+2 07	+2 08	*1.14	*1.14	1.37	1.37	0.69
4441	Jack Bay #	29° 22.0'	89° 20.7'	+3 12	+2 48	*1.00	*1.00	--	1.2	0.6
4443	Grand Bay #	29° 23.1'	89° 22.8'	+2 54	+2 56	*1.08	*1.08	1.25	1.34	0.67
4445	Lonesome Bayou (Thomasin) #	29° 14'	89° 03'	+0 34	-0 29	*0.90	*0.90	--	1.1	0.5
	<i>Mississippi River</i>									
4447	North Pass, Pass a Loutre #	29° 12.3'	89° 02.2'	+0 42	+0 43	*0.91	*0.91	1.08	1.10	0.55
4449	Venice, Grand Pass #	29° 16.4'	89° 21.1'	+2 38	+2 54	*0.82	*0.82	0.98	0.98	0.50
4451	Pilottown #	29° 10.7'	89° 15.5'	+1 59	+2 15	*0.82	*1.00	0.96	1.06	0.50

Endnotes can be found at the end of table 2.

TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level		
		Latitude	Longitude	Time		Height		Mean	Diurnal			
				High Water	Low Water	High Water	Low Water					
	LOUISIANA Time meridian, 90° W	North	West	h	m	h	m	ft	ft	ft		
	<i>Mississippi River-cont.</i>			on South Pass, p.208								
4453	Southeast Pass #	29° 07.0'	89° 02.7'	+0 37		-0 28		*0.98	*0.98	-- 1.2	0.6	
4455	SOUTH PASS #	28° 59.4'	89° 08.4'			<i>Daily predictions</i>				1.18	1.22	0.61
4457	Port Eads, South Pass #	29° 00.9'	89° 09.6'	+0 56		-0 17		*0.90	*0.90	-- 1.1	0.5	
4459	Southwest Pass #	28° 55.9'	89° 25.7'	+0 35		-0 13		*1.07	*1.07	-- 1.3	0.6	
4461	Joseph Bayou #	29° 03.5'	89° 16.3'	+0 37		-0 17		*1.15	*1.15	-- 1.4	0.7	
4463	New Orleans <12> #	29° 55'	90° 04'	---		---		---	---	-- --	--	
				on Grand Isle, p.212								
4465	Paris Road Bridge (ICWW) #	30° 00'	89° 56'	+5 53		+5 58		*1.04	*1.04	-- 1.1	0.6	
4467	Empire Jetty #	29° 15.0'	89° 36.5'	-1 03		-1 45		*1.23	*1.23	-- 1.3	0.7	
4469	Bastian Island #	29° 17.2'	89° 39.8'	+0 41		+0 12		*1.13	*1.13	-- 1.2	0.6	
4471	Quatre Bayous Pass #	29° 18.6'	89° 51.2'	+2 18		+0 17		*1.23	*1.23	-- 1.3	0.6	
4473	Barataria Pass #	29° 16'	89° 57'	+1 00		-0 10		*1.13	*1.13	-- 1.2	0.6	
	<i>Barataria Bay</i>			<i>Daily predictions</i>								
4475	EAST POINT, GRAND ISLE	29° 15.8'	89° 57.4'							1.04	1.06	0.53
4477	Bayou Rigaud, Grand Isle #	29° 16'	89° 58'	+1 32		+0 46		*0.94	*0.94	-- 1.0	0.5	
4479	Independence Island #	29° 18.6'	89° 56.3'	+2 29		+1 59		*0.85	*0.85	-- 0.9	0.4	
4481	Mendicant Island #	29° 19.1'	89° 58.8'	+0 51		+1 16		*0.94	*1.00	0.98	1.00	0.50
4483	Manilla #	29° 25.6'	89° 58.6'	+2 32		+3 13		*0.94	*0.94	-- 1.0	0.5	
4485	Caminada Pass (bridge) #	29° 12.6'	90° 02.4'	+0 20		+0 12		*0.94	*0.94	0.99	0.99	0.50
4487	Port Fourchon, Belle Pass #	29° 06.8'	90° 11.9'	-0 27		-0 29		*1.16	*1.16	1.21	1.23	0.62
4489	Leeville, Bayou Lafourche #	29° 14.9'	90° 12.7'	+3 00		+3 00		*0.83	*0.83	0.85	0.88	0.44
4491	East Timbalier Island, Timbalier Bay#	29° 04.6'	90° 17.1'	+0 07		+0 53		*1.22	*1.22	1.25	1.32	0.66
4493	Timbalier Island, Timbalier Bay #	29° 05'	90° 32'	+0 19		+0 23		*1.13	*1.13	-- 1.2	0.6	
4495	Pelican Islands, Timbalier Bay #	29° 07.7'	90° 25.4'	+2 26		+2 26		*1.13	*1.13	-- 1.2	0.6	
4497	Wine Island, Terrebonne Bay #	29° 04.7'	90° 37.1'	+1 08		+1 02		*1.23	*1.23	-- 1.3	0.6	
4499	Cocodrie, Terrebonne Bay #	29° 14.7'	90° 39.7'	+1 22		+1 33		*0.98	*0.98	1.01	1.05	0.53
4501	East Isle Dernieres, Lake Pelto #	29° 04.3'	90° 38.40'	-0 55		-0 43		*1.19	*1.19	1.22	1.28	0.64
4503	Caillou Boca #	29° 03.8'	90° 48.4'	+0 40		+0 48		*1.32	*1.32	-- 1.4	0.7	
4505	Raccoon Point, Caillou Bay #	29° 03.5'	90° 57.7'	-0 03		-0 20		*1.60	*1.60	-- 1.7	0.8	
4507	Texas Gas Platform, Caillou Bay #	29° 10.4'	90° 58.5'	-0 49		-0 20		*1.35	*1.35	1.22	1.51	0.81
4509	Ship Shoal Light #	28° 55'	91° 04'	-1 54		-1 50		*1.51	*1.51	-- 1.6	0.8	
				on Galveston, p.216								
	<i>Atchafalaya Bay</i>											
4511	Eugene Island, north of	29° 22.4'	91° 23.0'	-1 48		-1 51		*1.34	*1.23	1.39	1.96	1.07
4513	Point Au Fer #	29° 20'	91° 21'	-0 21		-2 26		*1.40	*1.40	-- 2.0	1.0	
4515	Shell Island #	29° 28'	91° 18'	+0 54		-0 39		*1.07	*1.07	-- 1.5	0.7	
4517	Stouts Pass, Six Mile Lake #	29° 44.6'	91° 13.8'	+2 09		+2 32		*0.61	*0.23	0.74	0.89	0.44
4519	Point Chevreuil #	29° 31'	91° 33'	+1 02		-0 54		*1.07	*1.07	-- 1.5	0.8	
4521	Rabbit Island, 5 miles south of #	29° 25'	91° 36'	-0 13		-2 00		*1.40	*1.40	-- 2.0	1.0	
4523	South Point, Marsh Island #	29° 29'	91° 46'	-0 19		-1 57		*1.30	*1.30	-- 1.8	0.9	
4525	Lighthouse Point #	29° 31'	92° 03'	-1 16		-2 17		*1.40	*1.40	-- 2.0	1.0	
4527	Cote Blanche Island, West Cote Blanche Bay #	29° 44'	91° 43'	+2 19		+2 16		*1.00	*1.00	-- 1.4	0.7	
4529	Southwest Pass, Vermilion Bay #	29° 35'	92° 02'	-0 32		-0 33		*1.14	*1.14	-- 1.6	0.8	
4531	Cypremont Point, Vermillion Bay #	29° 42.8'	91° 52.8'	+2 18		+1 52		*1.18	*0.80	1.32	1.70	0.90
4533	Weeks Bay, Vermilion Bay #	29° 50.2'	91° 50.3'	+3 47		+2 30		*1.15	*0.83	1.27	1.61	0.88
4535	Freshwater Canal Locks #	29° 33.3'	92° 18.3'	-2 32		-2 17		*1.52	*1.73	1.48	2.16	1.26
4537	Mermentau River entrance #	29° 45'	93° 06'	-1 54		-0 59		*1.79	*1.79	-- 2.5	1.2	
4539	Calcasieu Pass, East Jetty #	29° 46.1'	93° 20.6'	-2 27		-1 23		*1.38	*1.80	1.28	1.93	1.18
4541	Calcasieu Ship Channel, Bulk Terminal #	30° 11.4'	93° 18.0'	+3 48		+3 59		*0.94	*0.91	1.03	1.33	0.73
4543	Lake Charles, Calcasieu River #	30° 13.4'	93° 13.3'	+3 03		+3 54		*0.99	*0.81	1.06	1.40	0.77
	TEXAS											
4545	Sabine Pass, Texas Point #	29° 40.6'	93° 50.2'	-1 51		-1 03		*1.41	*1.66	1.36	1.98	1.18
4547	Sabine Pass #	29° 43.8'	93° 52.2'	-1 18		-0 38		*1.14	*1.14	1.09	1.60	0.96
4549	Port Arthur, Sabine Naches Canal #	29° 52.0'	93° 55.8'	+1 08		+1 08		*0.75	*0.53	0.83	1.04	0.57
4551	Rainbow Bridge, Neches River #	29° 58.8'	93° 52.9'	+4 04		+3 23		*0.75	*0.33	0.90	1.06	0.55
4553	High Island, ICWW #	29° 35.7'	94° 23.4'	+3 33		+3 55		*1.00	*0.73	1.09	1.41	0.77
4555	Galveston Bay Entrance, north jetty #	29° 21.2'	94° 43.4'	-1 06		-0 42		*1.20	*1.17	1.23	1.70	0.96
4557	GALVESTON, Galveston Channel #	29° 18.6'	94° 47.6'			<i>Daily predictions</i>				1.02	1.41	0.81
	<i>Galveston Bay</i>											
4559	Port Bolivar #	29° 21.9'	94° 46.8'	+0 57		+0 09		*1.00	*0.63	1.13	1.40	0.85
4561	Texas City, Turning Basin #	29° 23'	94° 53'	+0 33		+0 41		*1.00	*1.00	-- 1.4	0.7	
4563	Eagle Point <20> #	29° 28.8'	94° 55.1'	+5 34		+2 38		*0.80	*0.80	1.01	1.09	0.60
4565	Clear Lake <20> #	29° 33.8'	95° 04.0'	+6 57		+5 19		*0.83	*0.83	1.05	1.16	0.63
4567	Morgans Point, Barbours Cut <20> #	29° 40.9'	94° 59.1'	+5 11		+4 17		*0.95	*0.40	1.14	1.31	0.72
4569	Lynchburg Landing, San Jacinto River <20> #	29° 45.9'	95° 04.7'	+4 55		+4 51		*1.06	*0.67	1.20	1.50	0.80
4571	Annie's Landing, San Jacinto River <20> #	29° 49.1'	95° 04.7'	+5 20		+5 16		*1.14	*0.83	1.26	1.59	0.88
4573	Manchester, Houston Ship Channel <20> #	29° 43.1'	95° 15.1'	+4 55		+5 05		*1.15	*0.83	1.27	1.64	0.90
4575	Round Point, Trinity Bay <20> #	29° 44'	94° 42'	+10 39		+5 15		*0.71	*0.71	-- 1.0	0.5	
4577	Umbrella Point, Trinity Bay <20> #	29° 40.8'	94° 52.1'	+4 41		+3 39		*0.93	*0.33	1.14	1.27	0.67
4579	Point Barrow, Trinity Bay #	29° 44'	94° 50'	+5 48		+4 43		*0.79	*0.79	-- 1.1	0.5	
4581	Rollover Pass, East Bay #	29° 30.9'	94° 30.8'	+4 25		+3 16		*0.95	*0.53	1.10	1.35	0.71
4583	Gilchrist, East Bay #	29° 31'	94° 29'	+3 16		+4 18		*0.86	*0.86	-- 1.2	0.6	
4585	Galveston Railroad Bridge #	29° 18.1'	94° 53.8'	+2 10		+0 58		*0.88	*0.67	0.97	1.25	0.68
4587	Jamaica Beach, West Bay #	29° 12'	94° 59'	+2 38		+3 31		*0.71	*0.71	-- 1.0	0.5	
4589	Alligator Point, West Bay #	29° 10'	95° 08'	+2 39		+2 33		*0.64	*0.64	-- 0.9	0.4	
4591	Christmas Bay #	29° 02.5'	95° 10.5'	+4 47		+2 37		*0.58	*0.23	0.71	0.82	0.42
4593	Galveston Pleasure Pier #	29° 17.1'	94° 47.3'	-1 33		-1 03		*1.40	*1.30	1.46	2.04	1.12
4595	San Luis Pass #	29° 05.7'	95° 06.8'	+0 10		+0 11		*1.06	*0.80	1.16	1.50	0.81
4597	Freeport SPIP (ocean) #	29° 56.14'	95° 17.65'	-1 20		-1 07		*1.26	*0.83	1.42	1.80	0.95

Endnotes can be found at the end of table 2.

TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Diurnal	
				High Water	Low Water	High Water	Low Water			
	TEXAS Time meridian, 90° W	North	West	h m	h m	ft	ft	ft	ft	ft
				on Galveston, p.216						
4599	Freeport, US Coast Guard Station #	28° 56.6'	95° 18.1'	-1 18	-1 08	*1.25	*0.87	1.39	1.80	0.95
4601	Sargent, ICWW #	28° 46.3'	95° 37.0'	+3 04	+0 17	*0.51	*0.13	0.64	0.72	0.36
4603	Matagorda City, ICWW #	28° 46.2'	95° 54.8'	+3 13	+0 51	*0.41	*0.17	0.49	0.54	0.30
4605	Matagorda Bay Entrance Channel #	28° 25.6'	96° 19.7'	-2 48	-2 48	*0.91	*0.37	1.09	1.23	0.65
4607	PORT O'CONNOR, MATAGORDA BAY #	28° 27'	96° 24'	<i>Daily predictions, p.220</i>				--	0.5	0.2
4609	Port Lavaca, Matagorda Bay #	28° 37'	96° 37'	---	---	---	---	--	0.7	0.3
4611	Rockport, Aransas Bay #	28° 01.3'	97° 02.8'	---	---	---	---	0.36	0.36	0.18
4613	Aransas, Aransas Pass #	27° 50.2'	97° 02.3'	-1 12	-1 17	*0.99	*0.63	1.11	1.37	0.75
4615	Corpus Christi #	27° 34.8'	97° 13.0'	-1 09	-1 30	*1.17	*0.73	1.31	1.63	0.93
4617	Riviera Beach, Baffin Bay #	27° 17'	97° 40'	---	---	---	---	--	0.3	0.1
				on Padre Island, p.224						
4619	South Padre Island, Brazos Santiago Pass #	26° 04.1'	97° 09.3'	-0 04	-0 02	*0.96	*0.88	1.22	1.43	0.75
4621	PADRE ISLAND (south end) #	26° 04.1'	97° 09.4'	<i>Daily predictions</i>				1.25	1.47	0.87
4623	Queen Isabella Causeway (east end) #	26° 04.7'	97° 10.2'	+0 24	+0 21	*0.87	*0.75	1.11	1.28	0.68
4625	Queen Isabella Causeway (west end) #	26° 04.3'	97° 11.5'	+0 52	+0 30	*0.81	*0.63	1.05	1.19	0.62
4627	Port Isabel #	26° 03.6'	97° 12.9'	+0 10	+0 26	*0.92	*1.00	1.15	1.37	0.74
4629	South Bay entrance #	26° 03.1'	97° 10.9'	+0 14	+0 21	*0.91	*0.94	1.14	1.35	0.72
	MEXICO <13> Gulf of Mexico			on Tampico Harbor, p.228						
4631	Matamoras #	25° 53'	97° 31'	+0 55	+0 40	*1.00	*1.00	--	1.4	0.7
4633	TAMPICO HARBOR (Madero) #	22° 13'	97° 51'	<i>Daily predictions</i>				--	1.4	0.7
4635	Tuxpan #	21° 00'	97° 20'	+0 02	+0 04	*1.21	*1.21	--	1.7	0.8
4637	Veracruz #	19° 12'	96° 08'	-0 19	-0 12	*1.21	*1.21	--	1.7	0.8
4639	Alvarado #	18° 46'	95° 46'	+0 51	+0 27	*0.93	*0.93	--	1.3	0.6
4641	Coatzacoalcos #	18° 09'	94° 25'	-0 40	+0 05	*1.07	*1.07	--	1.5	0.7
4643	Frontera #	18° 32'	92° 39'	-0 18	-0 27	*1.14	*1.14	--	1.6	0.8
4645	Progreso #	21° 18'	89° 40'	+1 19	+0 23	*1.29	*1.29	--	1.8	0.9
	BELIZE			on Key West, p.172						
4647	Belize City	17° 30'	88° 11'	+0 14	+0 47	*0.46	*0.46	0.6	0.7	0.4
4649	Punta Gorda	16° 06'	88° 49'	-0 27	+0 30	*0.46	*0.46	0.6	0.8	0.4
	GUATEMALA <13>									
4651	Rio Dulce entrance	15° 50'	88° 49'	-1 25	-1 35	*0.92	*0.92	1.2	1.5	0.7
	HONDURAS <13>									
4653	Puerto Cortes	15° 50'	87° 57'	-0 43	-0 02	*0.38	*0.38	0.5	0.6	0.2
4655	Port Royal, Isla de Roatan	16° 24'	86° 20'	-2 41	-2 35	*0.92	*0.92	1.2	1.4	0.6
4657	Puerto Castilla	16° 00'	86° 02'	-0 48	-0 13	*0.46	*0.46	0.6	0.8	0.4
4659	Isla de Guanaja	16° 29'	85° 54'	-1 26	-1 42	*0.72	*0.72	1.0	1.3	0.6
4661	Harbor Bay, Great Swan Island	17° 24'	83° 56'	-1 18	-0 33	*0.51	*0.51	0.7	0.9	0.4
	NICARAGUA <13>			on Hampton Roads, p.120						
4663	Cabo Gracias a Dios	15° 00'	83° 10'	+0 23	-0 32	*0.57	*0.57	1.2	1.6	0.8
4665	Puerto Cabezas	14° 01'	83° 23'	+3 05	+3 11	*0.56	*0.56	1.4	1.9	0.9
4667	Cayos de Perlas	12° 25'	83° 25'	+4 53	+4 33	*0.46	*0.46	0.9	1.3	0.6
4669	Isla del Maiz Grande	12° 10'	83° 03'	+4 38	+4 13	*0.46	*0.46	0.9	1.3	0.3
4671	Bluefields Lagoon entrance	12° 00'	83° 42'	+3 54	+3 27	*0.28	*0.28	0.7	1.0	0.4
4673	San Juan del Norte (Greytown)	10° 55'	83° 42'	+4 03	+4 03	*0.28	*0.28	0.7	1.1	0.5
	COSTA RICA <13>			on Cristobal, p.232						
4675	Limon	10° 00'	83° 02'	-0 32	-0 29	*1.00	*1.00	0.7	1.2	0.5
	PANAMA <13> Time meridian, 75° W									
4677	Bocas del Toro, Almirante Bay	9° 21'	82° 15'	+0 21	+0 24	*1.14	*1.14	0.8	1.2	0.6
4679	CRISTOBAL (COLON)	9° 21'	79° 55'	<i>Daily Predictions</i>				0.7	1.1	0.4
4681	Bahia de Caledonia	8° 54'	77° 41'	+0 12	+0 00	*1.00	*1.00	0.7	1.1	0.4
	BERMUDA ISLANDS Time meridian, 60° W			on St. Georges Island, p.236						
4683	Ireland Island	32° 19'	64° 50'	+0 11	+0 13	*1.07	*1.23	2.6	3.1	1.6
4685	Ferry Reach (Biological Station)	32° 22.2'	64° 41.7'	-0 04	+0 03	*0.93	*1.00	2.4	2.9	1.3
4687	ST. GEORGES ISLAND	32° 22.4'	64° 42.2'	<i>Daily Predictions</i>				2.5	3.0	1.3
	BAHAMAS Time meridian, 75° W			on Settlement Point, p.240						
4689	Guinchos Cay	22° 45'	78° 07'	+0 06	+0 16	*0.79	*1.11	2.1	2.6	1.2
4691	Elbow Cay, Cay Sal Bank	23° 57'	80° 28'	+1 18	+1 28	*0.79	*1.11	2.1	2.6	1.2
4693	Fresh Creek, Andros Island	24° 44'	77° 48'	+0 05	-0 08	*0.97	*1.11	2.4	2.9	1.3
4695	North Cat Cay	25° 33'	79° 17'	+0 22	+0 32	*0.86	*1.11	2.3	2.8	1.3
4697	North Bimini	25° 44'	79° 18'	+0 05	+0 22	*0.90	*1.11	2.4	2.9	1.3
4699	Memory Rock	26° 57'	79° 07'	+0 16	+0 26	*0.86	*1.11	2.3	2.7	1.3

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No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Spring	
				High Water	Low Water	High Water	Low Water			
	BAHAMAS Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft
				on Settlement Point, p.240						
4701	SETTLEMENT POINT, GRAND BAHAMAS ISLAND	26° 42.6'	78° 59.8'	<i>Daily predictions</i>				2.7	3.1	1.4
4703	Pelican Harbor	26° 23'	76° 58'	+0 18	+0 28	*0.97	*1.11	2.6	3.1	1.4
4705	Nassau, New Providence Island	25° 05'	77° 21'	-0 08	-0 03	*0.98	*1.44	2.6	3.1	1.9
4707	Eleuthera Island, west coast	25° 15'	76° 19'	+2 09	+2 33	*0.94	*1.11	2.4	2.9	1.3
4709	Eleuthera Island, east coast	24° 56'	76° 09'	+0 11	+0 23	*0.82	*1.11	2.2	2.6	1.2
4711	The Bight, Cat Island	24° 19'	75° 26'	-0 37	-0 27	*0.97	*1.11	2.6	3.1	1.4
4713	San Salvador	24° 03'	74° 33'	-0 08	-0 06	*0.86	*1.11	2.3	2.8	1.3
4715	Clarence Harbor, Long Island	23° 06'	74° 59'	+0 41	+0 51	*0.97	*1.11	2.6	3.1	1.4
4717	Nurse Channel	22° 31'	75° 51'	+0 00	+0 10	*0.79	*1.11	2.1	2.6	1.1
4719	Datum Bay, Acklin Island	22° 10'	74° 18'	-0 21	-0 11	*0.75	*1.11	2.0	2.6	1.1
4721	Mathew Town, Great Inagua Island	20° 57'	73° 41'	+0 08	+0 28	*0.79	*1.11	2.1	2.6	1.2
4723	Abraham Bay, Mayaguana Island	22° 22'	73° 00'	+0 02	-0 10	*0.79	*1.11	2.0	2.5	1.1
4725	Hawks Nest Anchorage, Turks Islands	21° 26'	71° 07'	-0 27	-0 17	*0.79	*1.11	2.1	2.6	1.1
	CUBA			on Hampton Roads, p.120						
4727	La Isabela	22° 56'	80° 00'	+0 20	+0 16	*0.64	*0.64	1.6	2.0	0.9
4729	Bahia de Nuevitas entrance	21° 38'	77° 07'	-0 05	-0 46	*0.52	*0.52	1.3	1.5	0.7
4731	Nuevitas, Bahia de Nuevitas	21° 35'	77° 15'	+1 32	+1 33	*0.56	*0.56	1.4	1.6	0.7
4733	Puerto Padre	21° 14'	76° 33'	-0 05	-0 10	*0.84	*0.84	2.1	2.4	1.1
4735	Puerto de Gibara	21° 07'	76° 07'	-1 06	-1 03	*0.76	*0.76	1.9	2.2	1.0
4737	Bahia de Nipe entrance	20° 47'	75° 34'	-0 55	-1 01	*0.81	*0.81	2.0	2.3	1.1
4739	Antilla, Bahia de Nipe	20° 50'	75° 44'	-0 37	-0 44	*0.89	*0.89	2.2	2.5	1.2
4741	Bahia de Levisa entrance	20° 45'	75° 28'	-1 03	-1 07	*0.77	*0.77	1.9	2.2	1.0
4743	Sagua de Tanamo, Bahia de	20° 43'	75° 19'	-1 00	-1 08	*0.76	*0.76	1.9	2.2	1.0
4745	MÓA, HOLGUIN	20° 39.2'	74° 54.6'	<i>Daily predictions, p.256</i>				1.74	--	--
4747	Baracoa	20° 21'	74° 30'	-1 14	-1 18	*0.68	*0.68	1.7	2.0	0.9
4749	Punta Maisi	20° 15'	74° 08'	-1 16	-1 20	*0.88	*0.88	2.2	2.8	1.2
				on San Juan, p.264				Mean Diurnal		
4751	Guantanamo Bay	19° 54'	75° 09'	-0 17	-0 23	*0.89	*0.89	--	1.4	0.7
4753	SANTIAGO DE CUBA	19° 59.1'	75° 52.5'	<i>Daily predictions, p.252</i>				1.01	--	--
4755	Puerto de Pilon	19° 54'	77° 19'	+0 11	+0 13	*0.72	*0.72	--	1.2	0.6
4757	Manzanillo, Golfo de Guacanayabo	20° 21'	77° 07'	+1 41	+1 38	+1.39	+1.39	--	2.2	1.1
4759	Casilda	21° 45'	79° 59'	+1 04	+0 52	*0.65	*0.65	--	1.0	0.5
	<i>Bahia de Cienfuegos</i>									
4761	Punta Pasacaballos	22° 04'	80° 27'	+0 49	+0 58	*0.80	*0.80	--	1.3	0.6
4763	CIENFUEGOS	22° 09.1'	80° 27.3'	<i>Daily predictions, p.244</i>				0.89	--	--
4765	Carapachibey, Isla de Pinos	21° 27'	82° 55'	+0 43	+0 52	*0.54	*0.54	--	0.9	0.4
4767	La Coloma	22° 14'	83° 34'	+2 04	+2 23	*0.54	*0.54	--	0.9	0.4
4769	Cabo San Antonio	21° 52'	84° 58'	-0 50	-0 07	*0.92	*0.92	1.2	1.5	0.8
				on Key West, p.172				Mean Spring		
4771	Bahia Honda	22° 58'	83° 13'	-1 04	-0 23	*0.76	*0.76	1.0	1.4	0.7
4773	HAVANA	23° 08.9'	82° 20.2'	<i>Daily predictions, p. 248</i>				0.95	--	--
4775	Matanzas	23° 04'	81° 32'	-0 59	-0 59	*0.92	*0.92	1.2	1.5	0.8
4777	Cardenas	23° 04'	81° 12'	-0 11	+0 34	*1.08	*1.08	1.4	1.8	1.0
	JAMAICA			on Galveston, p.216				Mean Diurnal		
4779	Port Morant	17° 53'	76° 20'	-7 45	-7 45	*0.57	*0.57	--	0.8	0.4
4781	Port Royal #	17° 56'	76° 51'	-7 07	-8 14	*0.50	*0.50	--	0.7	0.3
4783	Galleon Harbour	17° 54'	77° 04'	--	--	--	--	--	0.8	0.4
4785	South Negril Point #	18° 18'	78° 24'	-2 47	-2 47	*1.21	*1.21	--	1.7	0.8
4787	Montego Bay	18° 28'	77° 55'	-6 44	-6 40	*0.71	*0.71	--	1.0	0.5
4789	St. Anns Bay	18° 25'	77° 14'	-7 17	-7 17	*0.57	*0.57	--	0.8	0.4
4791	Grand Cayman #	19° 20'	81° 20'	-8 01	-8 01	*0.93	*0.93	--	1.3	0.6
	HAITI and DOMINICAN REPUBLIC			on San Juan, p.264						
4793	Port-au-Prince	18° 33'	72° 21'	-0 35	-0 38	*0.99	*0.99	--	1.6	0.8
4795	Massacre, Riviere du entrance	19° 43'	71° 46'	-1 04	-1 07	*1.44	*1.44	--	2.3	1.2
4797	Puerto Plata	19° 49'	70° 42'	-1 12	-1 20	*1.44	*1.44	--	2.3	1.2
4799	Santa Barbara de Samana	19° 12'	69° 20'	-0 54	-0 53	*1.25	*1.25	--	2.0	1.0
4801	Sanchez	19° 13'	69° 36'	-0 40	-0 43	*2.05	*2.05	--	3.3	1.6
				on Galveston, p.216						
4803	Saona, Isla #	18° 10'	68° 40'	--	--	--	--	--	0.6	0.3
4805	La Romana #	18° 25'	68° 57'	--	--	--	--	--	0.6	--
4807	Santo Domingo #	18° 27'	69° 53'	-6 28	-11 01	*0.57	*0.57	--	0.8	0.4
4809	Barahona #	18° 12'	71° 05'	--	--	--	--	--	0.7	0.3
4811	Jacmel #	18° 13'	72° 34'	-10 00	-10 00	*1.43	*1.43	--	2.0	1.0
	PUERTO RICO Time meridian, 60° W			on Magueyes, p.260						
4813	MAGUEYES ISLAND #	17° 58.3'	67° 02.8'	<i>Daily predictions</i>				0.65	0.67	0.34
4815	Guanica #	17° 58'	66° 55'	-1 22	+0 18	*1.00	*1.00	--	0.7	0.3
4817	Playa de Ponce #	17° 58'	66° 37'	-0 39	-0 13	*1.14	*1.14	--	0.8	0.4
4819	Playa Cortada #	17° 59'	66° 27'	+0 16	-0 37	*1.14	*1.14	--	0.8	0.4
4821	Arroyo #	17° 58'	66° 04'	+0 52	+0 13	*1.14	*1.14	--	0.8	0.4

Endnotes can be found at the end of table 2.

TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Diurnal	
				High Water	Low Water	High Water	Low Water			
	PUERTO RICO Time meridian, 60° W	North	West	h m	h m	ft	ft	ft	ft	ft
				on Magueyes, p.260						
4823	Puerto Maunabo #	18° 00'	65° 53'	-0 56	+1 13	*1.00	*1.00	--	0.7	0.4
4825	Culebrita, Isla #	18° 19'	65° 14'	-2 34	+2 40	*1.57	*1.57	--	1.1	0.6
4827	Puerto Ferro, Isla de Vieques #	18° 06'	65° 26'	-2 26	+3 01	*1.14	*1.14	--	0.8	0.4
				on San Juan, p.264						
4829	Punta Mulas, Isla de Vieques	18° 09'	65° 26'	-0 14	-0 17	*0.72	*0.72	--	1.2	0.6
4831	Roosevelt Roads	18° 14'	65° 37'	+0 02	+0 20	*0.63	*0.63	--	1.0	0.5
4833	Ensenada Honda, Culebra Island	18° 18'	65° 17'	-0 34	-0 15	*0.63	*0.63	--	1.0	0.5
4835	Culebra	18° 18.05'	65° 18.15'	-0 19	+0 08	*0.72	*0.73	0.78	1.14	0.55
4837	Playa de Fajardo	18° 20'	65° 38'	-0 10	-0 13	*0.99	*0.99	--	1.6	0.8
4839	SAN JUAN	18° 27.5'	66° 07.0'	<i>Daily predictions</i>				1.10	1.58	0.76
4841	Mayaguez	18° 13.2'	67° 09.6'	-0 09	-0 11	*0.93	*0.76	1.06	1.40	0.69
4843	Puerto Real	18° 05'	67° 11'	-0 33	-0 26	*0.72	*0.72	--	1.2	0.6
	LESSER ANTILLES & VIRGIN ISLANDS			on Charlotte Amalie, p.268						
	<i>St. Thomas Island</i>									
4845	Botany Bay #	18° 21.8'	65° 02.1'	+0 01	-0 17	*1.39	*1.39	0.90	1.28	0.58
4847	Dorothea Bay, Ruy Point #	18° 22.2'	64° 57.8'	+0 03	-0 17	*1.41	*1.41	0.93	1.29	0.58
4849	Magens Bay #	18° 22'	64° 55'	-0 06	-0 17	*1.59	*1.59	1.0	1.4	0.7
4851	Water Bay #	18° 20.9'	64° 51.8'	-0 11	-0 14	*1.30	*1.30	0.81	1.19	0.56
4853	Redhook Bay #	18° 19.1'	64° 51.1'	-0 46	+0 44	*1.28	*1.28	0.82	1.09	0.54
4855	CHARLOTTE AMALIE #	18° 20.1'	64° 55.2'	<i>Daily predictions</i>				0.70	0.79	0.40
4857	Dog Island #	18° 17.8'	64° 49.0'	-0 09	+0 06	*0.97	*0.97	0.63	0.80	0.40
	<i>St. Johns Island</i>									
4859	Lovango Cay #	18° 21.6'	64° 48.2'	-0 27	-0 31	*1.13	*1.13	0.61	1.06	0.49
4861	Leinster Point #	18° 22.0'	64° 43.2'	-0 12	-0 20	*1.22	*1.22	0.90	1.12	0.51
4863	Coral Harbor #	18° 20.9'	64° 43.0'	-0 13	-0 13	*1.08	*1.08	0.72	0.90	0.44
4865	Lameshur Bay #	18° 19.0'	64° 43.4'	-0 04	-0 06	*1.04	*1.14	0.72	0.82	0.41
				on Lime Tree Bay, p.272						
4867	Christiansted Harbor #	17° 45.0'	64° 42.3'	-1 37	+0 23	*1.03	*1.03	0.69	0.73	0.37
4869	LIME TREE BAY, ST.CROIX ISLAND #	17° 41.8'	64° 45.2'	<i>Daily predictions</i>				0.69	0.71	0.36
4871	Fredericksted #	17° 42.8'	64° 53.0'	-0 14	+0 59	*1.01	*1.00	0.70	0.73	0.36
4873	St. Barthelemy #	17° 54'	62° 51'	-3 26	-1 11	*1.87	*1.00	--	1.4	0.7
4875	Pointe-a-Pitre, Guadeloupe	16° 14'	61° 32'	-4 28	-0 33	*3.24	*1.80	--	1.0	0.5
				on Key West, p.172						
4877	Roseau, Dominica	15° 18'	61° 24'	-6 29	-6 05	*0.65	*0.65	0.7	1.2	0.6
4879	Fort-de-France, Martinique	14° 35'	61° 03'	-6 55	-6 18	*0.38	*0.38	0.5	--	0.5
4881	Castries, St. Lucia	14° 01'	61° 00'	-7 09	-7 05	*0.62	*0.62	0.8	1.2	0.6
4883	Vieux Fort Bay, St. Lucia	13° 44'	60° 58'	-6 02	-5 38	*0.69	*0.69	0.9	--	0.7
4885	Kingstown, St. Vincent <13>	13° 10'	61° 13'	-7 09	-6 38	*1.53	*1.53	2.0	2.7	1.4
4887	Bridgetown, Barbados	13° 06'	59° 38'	-6 28	-5 47	*1.30	*1.30	1.7	2.1	1.0
4889	Grenada	12° 04'	61° 45'	-7 26	-6 51	*0.92	*0.92	1.2	1.5	0.8
4891	Scarborough, Tobago	11° 11'	60° 44'	-6 40	-6 22	*1.60	*1.60	2.1	2.7	1.4
				on Cristobal, p.232						
4893	Schottegat, Curacao #	12° 07'	68° 56'	+0 25	+1 09	*0.82	*0.82	--	0.9	0.5
4895	St. Nicolaas Bay, Aruba #	12° 26'	69° 54'	--	--	--	--	--	0.8	0.4
	COLOMBIA <13> Time meridian, 75° W			on Hampton Roads, p.120						
4897	Isla de Providencia	13° 20'	81° 23'	+7 53	+7 53	*0.28	*0.28	0.7	1.1	0.4
				on Cristobal, p.232						
4899	Turbo	8° 10'	76° 45'	-0 49	-0 30	*1.43	*1.43	1.0	1.4	0.6
4901	Covenas	9° 20'	75° 40'	-1 06	-0 46	*1.14	*1.14	0.8	1.2	0.5
4903	Cartagena, Bahía de Cartagena	10° 24'	75° 33'	-1 16	-0 48	*1.00	*1.00	0.7	1.1	0.4
4905	Puerto Colombia	11° 00'	74° 58'	-0 52	-1 08	*1.29	*1.29	0.9	1.3	0.5
4907	Santa Marta	11° 18'	74° 12'	-1 19	-1 08	*1.00	*1.00	0.7	1.1	0.4
4909	Riohacha	11° 33'	72° 55'	-1 54	-1 09	*1.00	*1.00	0.7	1.1	0.4
	VENEZUELA Time meridian, 60° 30' W			on Isla Zapara, p.276				Mean Spring		
4911	ISLA ZAPARA, Lake Maracaibo	11° 00'	71° 35'	<i>Daily predictions</i>				2.8	3.0	2.7
4913	Bahía de Tablazos, Lake Maracaibo	10° 53'	71° 35'	+0 30	+0 11	*0.61	*0.31	2.1	2.3	1.5
4915	Punta de Palmas	10° 48'	71° 37'	+0 35	+0 16	*0.49	*0.31	1.6	1.8	1.2
				on Amuay, p.280				Mean Diurnal		
4917	AMUAY	11° 45'	70° 13'	<i>Daily predictions</i>				--	1.2	0.6
4919	La Guaira #	10° 36'	66° 56'	-2 29	-1 59	+0.8	+1.0	--	1.0	1.5
4921	Carenero #	10° 32'	66° 07'	-1 51	-1 59	+0.8	+1.0	--	1.0	1.5
4923	Cumana #	10° 28'	64° 11'	-2 37	-1 02	-0.1	0.0	--	1.1	0.5
4925	Porlamar, Isla de Margarita #	10° 57'	63° 51'	-1 19	-0 59	+0.6	0.0	--	1.8	0.9
4927	Carupano #	10° 40'	63° 15'	-1 17	-0 42	+0.2	0.0	--	1.4	0.7

Endnotes can be found at the end of table 2.

TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Spring	
				High Water	Low Water	High Water	Low Water			
	VENEZUELA Time meridian, 60° 30' W	North	West	h m	h m	ft	ft	ft	ft	ft
	<i>Gulf of Paria</i>			on Punta Gorda, p.284						
4929	Macuro	10° 39'	61° 56'	-1 15	-2 05	*0.38	*0.38	2.2	2.7	1.4
4931	Puerto de Hierro	10° 37'	62° 05'	-0 46	-1 19	*0.59	*0.59	3.3	4.2	2.0
4933	Barra de Maturin, channel entrance	10° 18'	62° 31'	-0 22	-0 45	-1.0	+0.2	4.6	5.7	2.8
4935	PUNTA GORDA, Rio San Juan	10° 10'	62° 38'	<i>Daily predictions</i>				5.8	7.1	3.2
4937	Boca Pedernales entrance	10° 01'	62° 12'	-0 03	-0 34	-1.3	+0.2	4.3	5.4	2.6
4939	Rio Orinoco entrance, Isla Ramon Isidro	8° 39'	60° 35'	+0 07	-0 12	+0.2	+1.0	5.0	6.7	3.8
	TRINIDAD Time meridian, 60° W									
4941	Staubles Bay	10° 41'	61° 39'	-0 37	-1 32	(*0.33+1.7)		1.9	2.5	2.8
4943	Carenage Bay	10° 41'	61° 36'	-0 28	-1 10	(*0.34+1.6)		2.0	2.6	2.7
4945	Port of Spain	10° 39'	61° 31'	-0 14	-0 42	(*0.31+1.4)		1.8	2.3	2.4
4947	Bonasse pier	10° 05'	61° 52'	-0 13	-0 45	-1.0	+1.4	3.4	4.4	3.4
4949	Erin Bay	10° 04'	61° 39'	-0 20	-1 11	-0.3	+1.2	4.3	5.6	3.6
4951	Guayaguayare Bay	10° 09'	61° 01'	-1 02	-1 39	(*0.53+1.3)		3.1	3.8	3.0
4953	Nariva River	10° 24'	61° 02'	-0 36	-1 46	(*0.41+1.3)		2.4	3.1	2.5
	GUYANA Time meridian, 56° 15' W									
4955	Parika, Essequibo River	6° 52'	58° 25'	+0 07	+0 31	+1.6	+1.0	6.6	8.3	5.6
4957	Georgetown	6° 48'	58° 10'	-0 13	-0 29	+0.9	+1.1	5.8	8.0	5.3
	SURINAM Time meridian, 45° W									
4959	Nickerie River	5° 57'	56° 59'	+0 09	+0 21	+1.1	0.0	7.1	9.2	4.9
4961	SURINAME RIVIER ENTRANCE	6° 00'	55° 14'	<i>Daily predictions</i>				6.0	7.6	4.3
4963	Paramaribo, Suriname Rivier	5° 49'	55° 09'	+1 09	+1 42	0.0	0.0	6.0	7.3	4.3
	FRENCH GUIANA Time meridian, 60° W									
4965	Rio Maroni entrance	5° 45'	53° 58'	+0 18	+0 24	+0.7	+1.2	5.5	7.2	5.2
4967	Iles du Salut	5° 17'	52° 35'	-0 07	-0 07	+1.7	+2.2	5.5	7.2	6.2
4969	Cayenne	4° 56'	52° 20'	+0 15	+0 15	+2.4	+1.8	6.6	7.8	6.4
	BRAZIL <16> Time meridian, 45° W									
4971	Cape Cassipore	3° 49'	51° 01'	+1 24	+1 19	+1.5	+0.3	7.2	9.5	5.2
4973	Rio Cunani entrance	2° 50'	50° 53'	+2 10	+2 24	(*2.42-0.2)		14.5	19.0	10.1
	South		West							
4975	Ilha de Maraca anchorage	2° 09'	50° 30'	+1 40	+1 52	(*2.42-0.2)		14.5	19.0	10.1
4977	Ilha do Brigue, Amazon River	0° 55'	50° 05'	+7 09	+7 40	+8.3	+1.1	13.2	15.7	9.0
4979	Ponta Pedreira, Amazon River	0° 11'	50° 43'	+6 31	+6 43	*2.08	*2.23	12.3	16.2	9.0
4981	Macapa, Amazon River	0° 03'	51° 11'	+10 57	+12 13	+2.8	+0.4	8.4	9.5	5.9
4983	Canal de Braganca, Rio Para entrance	0° 23'	47° 55'	+6 09	+6 09	+1.8	-0.1	7.9	10.4	5.1
4985	Salinopolis	0° 39'	47° 23'	+2 38	+2 52	*1.99	*1.54	12.5	15.9	8.3
4987	Belem (Para)	1° 27'	48° 30'	+6 34	+7 37	+2.9	+0.7	8.2	10.1	6.1
4989	Ilhas de Sao Joao	1° 17'	44° 55'	+1 31	+1 31	*1.70	*1.31	10.7	14.1	7.0
4991	Sao Luiz	2° 32'	44° 18'	+2 28	+2 25	(*2.35-0.7)		14.1	17.1	9.3
4993	Santana, Recife de	2° 16'	43° 36'	+0 46	+0 45	*1.58	*1.15	10.0	13.1	6.5
4995	Tutoia, Baia da	2° 46'	42° 14'	+0 11	+0 10	+2.4	+0.4	8.0	10.0	5.7
4997	Luis Correia	2° 53'	41° 40'	+0 01	+0 13	+1.8	+0.4	7.4	9.4	5.4
4999	Camocim	2° 53'	40° 52'	+1 07	+1 06	+2.0	+0.4	7.6	9.7	5.5
5001	Rio Ceara (bar)	3° 41'	38° 37'	-0 13	-0 21	+0.2	-0.1	6.3	8.3	4.3
5003	Fortaleza	3° 43'	38° 29'	-0 08	-0 12	+0.2	-0.3	6.5	8.5	4.2
	Time meridian, 30° W									
5005	Fernando de Noronha	3° 50'	32° 25'	+1 32	+1 33	-1.2	-0.5	4.5	6.0	2.9
5007	Rocas, Atol das	3° 51'	33° 49'	+1 43	+1 44	+2.3	0.0	7.5	10.0	4.9
	Time meridian, 45° W									
5009	Macau, Rio Acu	5° 06'	36° 41'	+1 29	+1 58	+0.6	-0.1	5.9	7.6	4.1
5011	Natal	5° 47'	35° 12'	+0 28	+0 30	+0.1	-0.2	5.5	7.3	3.7
5013	Cabedelo	6° 58'	34° 50'	+0 36	+0 37	+0.1	-0.2	5.5	7.2	3.7
5015	Tambau	7° 06'	34° 50'	-0 04	-0 03	+0.7	-0.1	6.0	7.6	4.1
5017	RECIFE	8° 03'	34° 52'	<i>Daily predictions</i>				5.3	7.1	3.8
5019	Maceio	9° 40'	35° 43'	+0 10	+0 14	-0.3	-0.2	5.1	6.8	3.6
5021	Rio Sao Francisco (bar)	10° 31'	36° 24'	+0 06	+0 14	-0.7	0.0	4.5	6.0	3.5
5023	Aracaju	10° 56'	37° 03'	+0 33	+0 48	-0.8	-0.3	4.7	6.1	3.3
5025	Salvador	12° 58'	38° 31'	-0 02	-0 08	+0.6	+0.4	5.5	7.4	4.3
5027	Ponta da Areia	12° 47'	38° 30'	+0 10	+0 06	+0.6	-0.1	5.9	7.6	4.0
5029	Morro de Sao Paulo	13° 21'	38° 54'	-0 11	-0 13	-0.6	0.0	4.6	6.0	3.5
5031	Camamu	13° 54'	38° 58'	-0 08	-0 04	-0.2	+0.1	4.9	6.5	3.8
5033	Ilheus	14° 48'	39° 02'	-0 33	-0 32	-0.9	-0.3	4.6	5.8	3.2
5035	Canaveiras	15° 40'	38° 56'	+0 16	+0 22	-1.0	-0.2	4.5	5.8	3.1
5037	Santa Cruz Cabralia	16° 17'	39° 02'	-0 35	-0 35	-1.2	-0.5	4.5	6.0	2.9
5039	Cumuruxatiba	17° 06'	39° 11'	-0 23	-0 09	+0.4	+0.3	5.3	7.2	4.2
5041	Caravelas	17° 43'	39° 09'	-0 50	-0 49	-0.8	-0.5	4.9	6.4	3.1

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TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Spring	
				High Water	Low Water	High Water	Low Water			
	BRAZIL <16> Time meridian, 45° W	South	West	h m	h m	ft	ft	ft	ft	ft
				on Recife, p.292						
5043	Abrolhos Anchorage	17° 58'	38° 42'	-0 01	+0 04	+0.6	+0.1	5.7	7.6	4.2
5045	Vitoria	20° 19'	40° 19'	-0 34	-0 35	*0.66	*0.75	3.3	4.6	2.6
5047	Guarapari	20° 40'	40° 30'	+0 12	+0 17	*0.62	*0.75	3.1	4.2	2.5
				on Rio de Janeiro, p.296						
5049	Sao Joao da Barra	21° 38'	41° 03'	+0 34	-0 42	-0.1	-0.2	2.6	3.6	2.1
5051	Macaé (Imbitiba Bay)	22° 23'	41° 46'	-0 23	-1 08	0.0	-0.2	2.7	3.6	2.1
5053	Armação dos Buzios	22° 45'	41° 53'	-0 01	-0 55	-0.1	-0.1	2.5	3.4	2.1
5055	Cabo Frio	23° 00'	42° 03'	-0 03	-0 05	*0.91	*0.90	2.3	3.2	2.0
5057	RIO DE JANEIRO	22° 54'	43° 10'	Daily predictions				2.5	3.5	2.2
5059	Itacurussa	22° 56'	43° 55'	+0 50	-0 26	0.0	-0.1	2.6	3.3	2.2
5061	Angra dos Reis	23° 01'	44° 19'	-0 35	-0 40	*0.86	*0.86	2.1	3.0	1.9
5063	Parati	23° 14'	44° 43'	-0 09	-1 25	-0.1	0.0	2.4	3.4	2.2
5065	Sao Sebastião	23° 49'	45° 24'	-0 28	-1 24	*0.94	*1.00	2.3	3.3	2.2
5067	SANTOS	23° 57'	46° 19'	Daily predictions, p.300				2.6	3.8	2.4
5069	Cananeia	25° 01'	47° 56'	+1 09	-1 09	+0.4	+0.2	2.7	4.1	2.6
5071	Paranaguá	25° 31'	48° 27'	+1 51	-1 32	+1.8	+0.2	4.1	6.0	3.2
5073	Sao Francisco do Sul	26° 15'	48° 38'	+0 38	- - -	+0.8	-0.1	3.4	4.8	2.6
5075	Itajaí	26° 54'	48° 39'	-0 08	-0 16	(*0.76+0.4)		1.9	2.8	2.1
5077	Porto Belo	27° 09'	48° 33'	-0 38	-0 28	*0.74	*0.74	1.8	2.5	1.7
5079	Florianópolis	27° 36'	48° 34'	-0 14	+0 15	*0.69	*0.70	1.7	2.4	1.6
5081	Imbituba	28° 14'	48° 39'	-0 17	-1 10	*0.54	*0.50	1.4	2.0	1.2
5083	Laguna	28° 30'	48° 47'	+1 10	-1 31	(*0.32+0.4)		0.8	1.2	1.1
5085	Barra do Rio Grande <18> #	32° 10'	52° 05'	- - -	- - -	- - -	- - -	- -	0.8	0.3
	URUGUAY			on Buenos Aires, p.304						
5087	Montevideo	34° 55'	56° 13'	-5 10	-7 11	(*0.52+1.6)		1.1	1.4	3.0
5089	Colonia, Rio de la Plata	34° 28'	57° 51'	+0 17	-0 33	(*0.52+1.2)		1.1	1.3	2.6
	ARGENTINA									
	Rio de la Plata									
5091	BUENOS AIRES	34° 34'	58° 23'	Daily predictions				2.1	2.5	2.6
5093	La Plata	34° 50'	57° 53'	-1 50	-2 04	+0.2	+0.6	1.7	2.0	3.0
5095	Banco Chico	34° 50'	57° 30'	-3 00	-3 24	+0.8	+0.8	2.1	2.5	3.4
5097	Banco Cuirassier	35° 06'	57° 08'	-5 25	-5 39	+0.8	+0.8	2.1	2.5	3.4
5099	Punta Piedras	35° 26'	57° 07'	-7 10	-7 23	+2.2	+1.1	3.2	3.8	4.2
5101	Punta Norte del Cabo San Antonio <17>	36° 18'	56° 47'	-8 50	-9 26	+1.2	+0.3	3.0	3.7	3.3
5103	Mar del Plata <17>	38° 03'	57° 33'	-0 02	+0 14	+0.7	+0.2	2.6	3.0	3.0
5105	Quequen <17>	38° 35'	58° 42'	-0 18	-0 22	+1.5	-0.3	3.9	4.2	3.2
				on Puerto Ingeniero White, p.308						
5107	Faro Recalada	39° 00'	61° 16'	-0 48	-0 28	-4.9	-1.3	6.5	7.1	5.3
5109	Monte Hermoso	38° 59'	61° 41'	-0 46	-0 40	-3.4	-1.2	7.9	9.1	6.2
	Bahia Blanca									
5111	Punta Ancla	38° 57'	62° 00'	-0 57	-0 21	-1.9	-0.9	9.1	9.9	7.1
5113	Puerto Rosales	38° 55'	62° 04'	-0 28	-0 06	-0.5	-0.5	10.1	11.0	8.0
5115	Puerto Belgrano	38° 53'	62° 06'	-0 22	-0 07	-0.5	-0.3	9.9	11.0	8.0
5117	PUERTO INGENIERO WHITE	38° 47'	62° 16'	Daily Predictions				10.1	11.6	8.5
5119	General Daniel Cerri	38° 45'	62° 24'	+0 16	+0 20	+1.8	+0.1	11.8	12.9	9.4
5121	Canal del Sur, Isla Bermejo	39° 01'	61° 58'	-0 55	-0 24	-2.2	-0.9	8.8	9.6	6.9
5123	Canal Bermejo, Isla Trinidad	39° 05'	61° 58'	-0 57	-0 26	-2.7	-1.0	8.4	9.2	6.6
5125	Punta Lobos, Isla Trinidad	39° 11'	61° 52'	-0 58	-0 41	-3.3	-1.2	8.0	8.8	6.2
5127	El Chara (Punta Laberinto)	39° 26'	62° 03'	-1 19	-0 51	-2.9	-1.0	8.3	9.2	6.5
5129	Bahia Anegada, Islote NW	40° 01'	62° 10'	-2 07	-2 00	(*0.63-0.6)		6.4	7.1	4.8
5131	Bahia San Blas	40° 33'	62° 14'	-3 47	-3 41	*0.50	*0.35	5.6	6.0	4.0
5133	Faro Segunda Barranca	40° 47'	62° 17'	-4 51	-4 40	(*0.53-0.5)		5.4	5.9	4.0
5135	Punta Redonda, Rio Negro entrance	41° 02'	62° 46'	-6 16	-6 10	-1.6	-1.4	9.9	11.2	7.0
				on Comodoro Rivadavia, p.312						
	Golfo San Matias									
5137	Caleta de los Loros	41° 02'	64° 06'	+7 14	+7 08	*1.45	*1.39	20.3	24.0	14.8
5139	Puerto San Antonio	40° 48'	64° 52'	+7 30	+7 23	(*1.57-1.6)		21.9	25.6	14.6
	Golfo San Jose									
5141	San Roman	42° 15'	64° 14'	+7 15	+7 18	(*1.42-1.1)		19.8	23.4	13.5
5143	Pueyrredon (Fondeadero)	42° 24'	64° 09'	+7 46	+7 40	(*1.52-2.2)		21.2	24.6	13.5
5145	La Argentina (Fondeadero)	42° 23'	64° 34'	+7 04	+6 58	*1.31	*1.36	18.0	23.3	13.5
5147	Punta Norte	42° 05'	63° 46'	+6 50	+6 44	-0.8	-1.4	14.5	17.0	9.5
5149	Caleta Valdes	42° 31'	63° 36'	+5 04	+4 58	-5.2	-1.9	10.6	12.4	6.7
5151	Punta Delgada	42° 46'	63° 38'	+4 08	+4 02	-5.8	-2.0	10.1	11.7	6.4
	Golfo Nuevo									
5153	Punta Ninfas (Fondeadero)	42° 57'	64° 25'	+2 48	+3 31	-2.3	-1.0	12.6	15.4	8.6
5155	Puerto Piramides	42° 35'	64° 17'	+2 56	+3 33	-2.7	-1.3	12.5	15.0	8.3
5157	Puerto Madryn	42° 46'	65° 02'	+3 08	+3 42	-0.8	-0.1	13.2	16.0	9.8
5159	Bahia Engano	43° 20'	65° 04'	+2 06	+2 00	-2.7	-1.3	12.5	15.2	8.2
5161	Isla Escondida	43° 43'	65° 17'	+2 10	+2 05	-3.3	-0.3	10.9	13.1	8.5
5163	Bahia Janssen	44° 02'	65° 14'	+1 48	+2 03	-4.1	-1.9	11.7	13.9	7.3
5165	Cabo Raso	44° 20'	65° 14'	+1 41	+1 26	-4.8	-1.6	10.7	12.4	7.0
5167	Bahia Cruz	44° 27'	65° 19'	+2 13	+2 07	-6.1	-2.1	9.9	11.5	6.2
5169	Santa Elena, Puerto	44° 31'	65° 22'	+1 45	+1 40	-3.1	-0.4	11.2	13.6	8.5
5171	Bahia Camarones	44° 54'	65° 36'	+1 10	+1 14	-2.3	+0.1	11.5	13.7	9.2

Endnotes can be found at the end of table 2.

TABLE 2. – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Spring	
				High Water	Low Water	High Water	Low Water			
	ARGENTINA Time meridian, 45° W	South	West	h m	h m	ft	ft	ft	ft	ft
				on Comodoro Rivadavia, p.312						
	<i>Golfo San Jorge</i>									
5173	Caleta Leones	45° 03'	65° 37'	+1 11	+1 05	-0.7	-0.2	13.4	14.7	9.8
5175	Bahia Gil (Caleta Horno)	45° 02'	65° 41'	+0 42	+0 36	-1.7	+0.3	11.9	14.1	9.6
5177	Puerto Melo	45° 01'	65° 50'	+0 27	+0 24	-1.5	+0.1	12.3	14.6	9.6
5179	Isla Tova	45° 06'	65° 59'	+0 27	+0 24	-1.5	+0.1	12.3	14.6	9.6
5181	Bahia Bustamante	45° 07'	66° 32'	+0 28	+0 23	-0.8	+0.7	12.4	14.7	10.2
5183	COMODORO RIVADAVIA	45° 52'	67° 29'					14.0	16.3	10.3
5185	Cabo Blanco	47° 12'	65° 45'	-1 15	-1 20	-2.3	-0.3	11.9	13.2	9.0
5187	Puerto Deseado	47° 45'	65° 55'	-2 52	-2 44	-0.6	+1.0	12.4	14.5	10.5
5189	Bahia Oso Marino	47° 56'	65° 48'	-3 35	-3 40	-1.2	+1.2	11.5	14.1	10.3
5191	Bahia de los Nodales	48° 01'	65° 57'	-3 01	-3 06	-1.2	+0.1	12.6	15.3	9.7
5193	Bahia Laura	48° 23'	66° 29'	-5 28	-5 28	+6.7	-1.9	22.5	25.4	12.7
5195	Bahia San Julian (Punta Pena)	49° 15'	67° 40'	-4 58	-5 04	(*1.40-1.4)		19.5	23.6	13.0
				on Punta Loyola, p.316						
5197	Santa Cruz (Punta Quilla)	50° 07'	68° 25'	+0 43	+0 44	+0.2	+0.1	26.0	32.4	20.4
5199	Ria Coig	50° 57'	69° 10'	-0 05	-0 04	0.0	-0.7	26.6	32.2	19.9
5201	PUNTA LOYOLA	51° 36'	69° 01'					25.9	32.4	20.3
5203	Rio Gallegos (Reduccion Beacon)	51° 37'	69° 13'	+0 21	+0 30	+4.2	+1.1	29.0	36.2	22.9
5205	Cabo Virgenes	52° 21'	68° 22'	-0 36	-0 55	-2.1	0.0	23.8	29.8	19.2
	Tierra del Fuego <19>			on Comodoro Rivadavia, p.312						
5207	Bahia San Sebastian	53° 10'	68° 30'	-7 50	-7 55	*1.69	*1.91	22.8	28.6	17.7
5209	Rio Grande (Muelle)	53° 48'	67° 41'	-7 50	-7 55	*1.15	*1.18	15.8	19.2	11.8
5211	Cabo San Pablo	54° 17'	66° 42'	-8 48	-8 53	*1.17	*1.27	16.0	19.3	12.2
				on Puerto Ingeniero White, p.308						
5213	Bahia Thetis	54° 38'	65° 15'	+1 00	+1 07	-2.0	-0.6	8.7	10.6	7.2
	SOUTH ATLANTIC OCEAN ISLANDS Time meridian, 60° W			on Pictou, p.8						
	<i>Falkland Islands</i>									
5215	Port Louis (Berkeley Sound)	51° 33'	58° 09'	+7 50	+7 47	-0.9	-1.0	3.3	4.2	3.0
5217	Stanley Harbor	51° 42'	57° 51'	+7 51	+7 48	-1.0	-1.0	3.2	4.2	2.9
	<i>South Georgia</i>									
5219	Royal Bay (Moltke Harbor)	54° 31'	36° 01'	+9 58	+10 19	*0.36	*0.13	1.7	2.3	1.2
5221	Leith Harbor	54° 08'	36° 41'	+9 15	+9 35	*0.64	*0.65	2.0	2.7	2.5
	Time meridian, local									
	<i>South Orkneys</i>									
5223	Scotia Bay, Laurie Island	60° 44'	44° 39'	+8 21	+8 32	-0.3	-0.6	3.5	5.0	3.5
	<i>South Shetlands</i>									
5225	Port Foster, Deception Island	62° 58'	60° 34'	+8 26	+8 38	0.0	-0.1	3.3	4.3	3.9
	Time meridian, 45° W									
5227	Admiralty Bay	62° 03'	58° 24'	+9 49	+10 05	-0.5	-0.4	3.1	4.4	3.5

Endnotes can be found at the end of table 2.

ENDNOTES

* RATIO. If the ratio is accompanied by a correction factor multiply the heights of the high and low waters at the reference station by the ratio and then apply the correction factor.

- # The tide at this location is chiefly diurnal. SEE CAUTION NOTE.
- <1> Neap low water falls lower than spring low water.
- <2> Wharves are dry at low water.
- <3> There is a bore in the Petitcodiac River. It arrives at Moncton about 1h 38m before high water at St. John: its height is about 3 to 3 1/2 feet on average spring tides, but it sometimes exceeds 5 feet on highest tides. On small tides it is not much more than a large ripple.
- <4> The Reversing Falls at St. John—The most turbulence in the gorge occurs on days when the tides are largest. On largest tides the outward fall is between 15 and 16 1/2 feet and is accompanied by a greater turbulence than the inward fall which is between 11 and 12 1/2 feet. The outward fall is at its greatest between 2 hours before and 1 hour after low water at St John: the inward fall is greater just before the time of high water.
- <5> For Eastern Standard, time subtract one hour from the predictions obtained using these differences.
- <6> Low water time difference is +2h 47m. SEE CAUTION NOTE ON PAGE FOLLOWING LISTING.
- <8> Values for the Hudson River above the George Washington Bridge are based upon averages for the six months May to October, when the freshwater discharge is at a minimum.
- <9> In Albermarle and Pamlico Sounds, except near the inlets, the periodic tide has a mean range of less than 0.5 foot.
- <11> In Choctawhatchee and Perdido Bays the periodic tide has a mean range of less than 0.5 foot.
- <12> At New Orleans the diurnal range of the tide during low river stages averages 0.8 foot. There is no periodic tide at high river stages.
- <13> For places on the Pacific coast, see "Tide Tables, West Coast of North and South America."
- <15> Spring range is given instead of diurnal range.
- <16> A "Pororoca", a bore, reported to vary from 5 to 15 feet at spring tides, occurs in the Araguay, Guama and Guajara Rivers.
- <17> Predictions will be approximate.
- <18> Diurnal range is given instead of spring range.
- <19> For places in Magellan Strait, on the south coast of Tierra del Fuego and on the Pacific coast, see "Tide Tables, West Coast of North and South America."
- <20> The time differences should be applied only to the higher high and the lower low water times of the reference station.
- <21> From Oak Hill southward in Mosquito Lagoon the periodic tide is negligible.
- <22> In Indian River north of Palm Bay, in Banana River and in Banana Creek, the periodic tides are negligible.
- <24> The periodic tide is negligible, at this location and above.
- <26> The periodic range of the tide is negligible at this location.
- <27> The periodic range of the tide is negligible inside Sugarloaf Sound.

TABLE 3.—HEIGHT OF TIDE AT ANY TIME

EXPLANATION OF TABLE

Although the footnote of Table 3 may contain sufficient explanation for finding the height of tide at any time, two examples are given here to illustrate its use.

Example 1.—Find the height of the tide at 0755 at New York (The Battery), N.Y., on a day when the predicted tides from Table 1 are given as:

<i>Low Water</i>		<i>High Water</i>	
<i>Time</i>	<i>Height</i>	<i>Time</i>	<i>Height</i>
<i>h.m.</i>	<i>ft</i>	<i>h.m.</i>	<i>ft</i>
0522	0.1	1114	4.2
1741	0.6	2310	4.1

An inspection of the above example shows that the desired time falls between the two morning tides

The duration of rise is $11^{\text{h}} 14^{\text{m}} - 5^{\text{h}} 22^{\text{m}} = 5^{\text{h}} 52^{\text{m}}$.

The time after low water for which the height is required is $7^{\text{h}} 55^{\text{m}} - 5^{\text{h}} 22^{\text{m}} = 2^{\text{h}} 33^{\text{m}}$.

The range of tide is $4.2 - 0.1 = 4.1$ feet.

The duration of rise or fall in Table 3 is given in heavy-faced type for each 20 minutes from $4^{\text{h}} 10^{\text{m}}$ to $10^{\text{h}} 40^{\text{m}}$. The nearest tabular value to $5^{\text{h}} 52^{\text{m}}$, the above duration of rise, is $6^{\text{h}} 00^{\text{m}}$; and on the horizontal line of $6^{\text{h}} 00^{\text{m}}$, the nearest tabular time to $2^{\text{h}} 33^{\text{m}}$ after low water for which the height is required is $2^{\text{h}} 36^{\text{m}}$. Following down the column in which this $2^{\text{h}} 36^{\text{m}}$ is found to its intersection with the line of the range 4.0 feet (the nearest tabular value to the above range of 4.1 feet), the correction is found to be 1.6 feet, which being reckoned from low water, must be added, making $0.1 + 1.6 = 1.7$ feet or 52 centimeters which is the required height above mean lower low water, the datum for New York.

Example 2. —Find the height of the tide at 0300 at Somewhere, U.S.A. on a day when the predicted tides are given as:

<i>High Water</i>		<i>Low Water</i>	
<i>Time</i>	<i>Height</i>	<i>Time</i>	<i>Height</i>
<i>h.m.</i>	<i>ft</i>	<i>h.m.</i>	<i>ft</i>
0012	11.3	0638	-2.0
1251	11.0	1853	-0.8

The duration of fall is $6^{\text{h}} 38^{\text{m}} - 00^{\text{h}} 12^{\text{m}} = 6^{\text{h}} 26^{\text{m}}$.

The time after high water for which the height is required is $3^{\text{h}} 00^{\text{m}} - 00^{\text{h}} 12^{\text{m}} = 2^{\text{h}} 48^{\text{m}}$.

The range of tide is $11.3 - (-2.0) = 13.3$ feet.

Entering Table 3 at the duration of fall of $6^{\text{h}} 20^{\text{m}}$, which is the nearest value to $6^{\text{h}} 26^{\text{m}}$, the nearest value on the horizontal line to $2^{\text{h}} 48^{\text{m}}$ is $2^{\text{h}} 45^{\text{m}}$ after high water. Follow down this column to its intersection with a range of 13.5 feet which is the nearest tabular value to 13.3 feet, one obtains 5.3 which, being calculated from high water, must be subtracted from it. The approximate height at $03^{\text{h}} 00^{\text{m}}$ is, therefore, $11.3 - 5.3 = 6.0$ feet or 183 centimeters.

When the duration of rise or fall is greater than $10^{\text{h}} 40^{\text{m}}$, enter the table with one-half the given duration and with one-half the time from the nearest high or low water; but if the duration of rise or fall is less than 4 hours, enter the table with double the given duration and with double the time from the nearest high or low water.

Similarly, when the range of tide is greater than 20 feet, enter the table with one-half the given range. The tabular correction should then be doubled before applying it to the given high or low water

TABLE 3.—HEIGHT OF TIDE AT ANY TIME

height. If the range of tide is greater than 40 feet, take one-third of the range and multiply the tabular correction by 3.

If the height at any time is desired for a place listed in Table 2 predictions of the high and low waters for the day in question should be obtained by the use of the difference given for the place in that table. Having obtained these predictions, the height for any intermediate time is obtained in the same manner as illustrated in the foregoing example.

GRAPHIC METHOD

If the height of the tide is required for a number of times on a certain day the full tide curve for the day may be obtained by the *one-quarter, one-tenth rule*. The procedure is as follows:

1. On cross-section paper plot the high and low water points in the order of their occurrence for the day, measuring time horizontally and height vertically. These are the basic points for the curve.

2. Draw light straight lines connecting the points representing successive high and low waters.

3. Divide each of these straight lines into four equal parts. The halfway point of each line gives another point for the curve.

4. At the quarter point adjacent to high water draw a vertical line above the point and at the quarter point adjacent to low water draw a vertical line below the point, making the length of these lines equal to one-tenth of the range between the high and low waters used. The points marking the ends of these vertical lines give two additional intermediate points for the curve.

5. Draw a smooth curve through the points of high and low waters and the intermediate points, making the curve well rounded near high and low waters. This curve will approximate the actual tide curve and heights for any time of the day may be readily scaled from it.

Caution.—Both methods presented are based on the assumption that the rise and fall conform to simple cosine curves. Therefore, the heights obtained will be approximate. The roughness of approximation will vary as the tide curve differs from a cosine curve.

An example of the use of the graphical method is illustrated below. Using the same predicted tides as in example 2, the approximate height at 3^h 00^m could be determined as shown below.

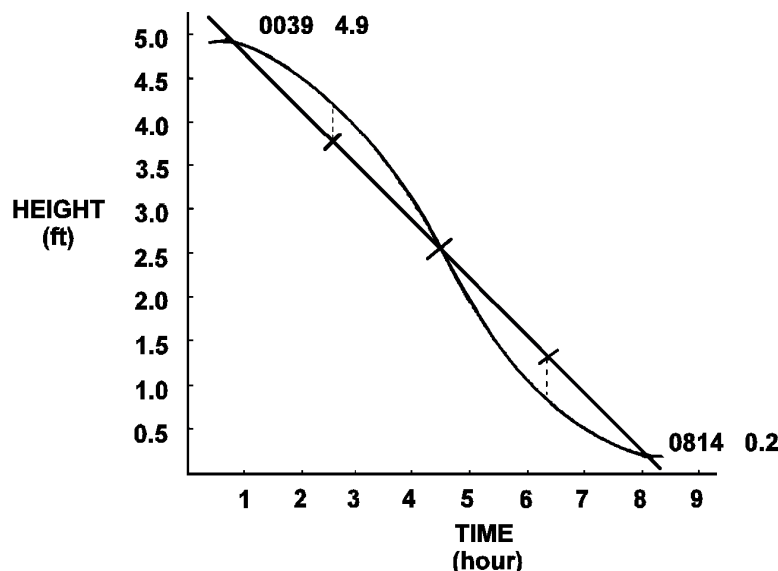


TABLE 3.—HEIGHT OF TIDE AT ANY TIME

<i>h. m.</i>	Time from the nearest high water or low water														
	<i>h. m.</i>	<i>h. m.</i>	<i>h. m.</i>	<i>h. m.</i>	<i>h. m.</i>	<i>h. m.</i>	<i>h. m.</i>	<i>h. m.</i>	<i>h. m.</i>	<i>h. m.</i>	<i>h. m.</i>	<i>h. m.</i>	<i>h. m.</i>	<i>h. m.</i>	<i>h. m.</i>
4 10	0 08	0 16	0 24	0 32	0 40	0 48	0 56	1 04	1 12	1 20	1 28	1 36	1 44	1 52	2 00
4 20	0 09	0 17	0 26	0 35	0 43	0 52	1 01	1 09	1 18	1 27	1 35	1 44	1 53	2 01	2 10
4 40	0 09	0 19	0 28	0 37	0 47	0 56	1 05	1 15	1 24	1 33	1 43	1 52	2 01	2 11	2 20
5 00	0 10	0 20	0 30	0 40	0 50	1 00	1 10	1 20	1 30	1 40	1 50	2 00	2 10	2 20	2 30
5 20	0 11	0 21	0 32	0 43	0 53	1 04	1 15	1 25	1 36	1 47	1 57	2 08	2 19	2 29	2 40
5 40	0 11	0 23	0 34	0 45	0 57	1 08	1 19	1 31	1 42	1 53	2 05	2 16	2 27	2 39	2 50
6 00	0 12	0 24	0 36	0 48	1 00	1 12	1 24	1 36	1 48	2 00	2 12	2 24	2 36	2 48	3 00
6 20	0 13	0 25	0 38	0 51	1 03	1 16	1 29	1 41	1 54	2 07	2 19	2 32	2 45	2 57	3 10
6 40	0 13	0 27	0 40	0 53	1 07	1 20	1 33	1 47	2 00	2 13	2 27	2 40	2 53	3 07	3 20
7 00	0 14	0 28	0 42	0 56	1 10	1 24	1 38	1 52	2 06	2 20	2 34	2 48	3 02	3 16	3 30
7 20	0 15	0 29	0 44	0 59	1 13	1 28	1 43	1 57	2 12	2 27	2 41	2 56	3 11	3 25	3 40
7 40	0 15	0 31	0 46	1 01	1 17	1 32	1 47	2 03	2 18	2 33	2 49	3 04	3 19	3 35	3 50
8 00	0 16	0 32	0 48	1 04	1 20	1 36	1 52	2 08	2 24	2 40	2 56	3 12	3 28	3 44	4 00
8 20	0 17	0 33	0 50	1 07	1 23	1 40	1 57	2 13	2 30	2 47	3 03	3 20	3 37	3 53	4 10
8 40	0 17	0 35	0 52	1 09	1 27	1 44	2 01	2 19	2 36	2 53	3 11	3 28	3 45	4 03	4 20
9 00	0 18	0 36	0 54	1 12	1 30	1 48	2 06	2 24	2 42	3 00	3 18	3 36	3 54	4 12	4 30
9 20	0 19	0 37	0 56	1 15	1 33	1 52	2 11	2 29	2 48	3 07	3 25	3 44	4 03	4 21	4 40
9 40	0 19	0 39	0 58	1 17	1 37	1 56	2 15	2 35	2 54	3 13	3 33	3 52	4 11	4 31	4 50
10 00	0 20	0 40	1 00	1 20	1 40	2 00	2 20	2 40	3 00	3 20	3 40	4 00	4 20	4 40	5 00
10 20	0 21	0 41	1 02	1 23	1 43	2 04	2 25	2 45	3 06	3 27	3 47	4 08	4 29	4 49	5 10
10 40	0 21	0 43	1 04	1 25	1 47	2 08	2 29	2 51	3 12	3 33	3 55	4 16	4 37	4 59	5 20
<i>Ft.</i>	Correction to height														
	<i>Ft.</i>	<i>Ft.</i>	<i>Ft.</i>	<i>Ft.</i>	<i>Ft.</i>	<i>Ft.</i>	<i>Ft.</i>	<i>Ft.</i>	<i>Ft.</i>	<i>Ft.</i>	<i>Ft.</i>	<i>Ft.</i>	<i>Ft.</i>	<i>Ft.</i>	<i>Ft.</i>
0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
1.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.4
1.5	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.6	0.7
2.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
2.5	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.2
3.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.2	1.3	1.5
3.5	0.0	0.0	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.0	1.2	1.4	1.6	1.8
4.0	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.4	1.6	1.8	2.0
4.5	0.0	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.3	1.6	1.8	2.0	2.2
5.0	0.0	0.1	0.1	0.2	0.3	0.5	0.6	0.8	1.0	1.2	1.5	1.7	2.0	2.2	2.5
5.5	0.0	0.1	0.1	0.2	0.4	0.5	0.7	0.9	1.1	1.4	1.6	1.9	2.2	2.5	2.8
6.0	0.0	0.1	0.1	0.3	0.4	0.6	0.8	1.0	1.2	1.5	1.8	2.1	2.4	2.7	3.0
6.5	0.0	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.3	1.6	1.9	2.2	2.6	2.9	3.2
7.0	0.0	0.1	0.2	0.3	0.5	0.7	0.9	1.2	1.4	1.8	2.1	2.4	2.8	3.1	3.5
7.5	0.0	0.1	0.2	0.3	0.5	0.7	1.0	1.2	1.5	1.9	2.2	2.6	3.0	3.4	3.8
8.0	0.0	0.1	0.2	0.3	0.5	0.8	1.0	1.3	1.6	2.0	2.4	2.8	3.2	3.6	4.0
8.5	0.0	0.1	0.2	0.4	0.6	0.8	1.1	1.4	1.8	2.1	2.5	2.9	3.4	3.8	4.2
9.0	0.0	0.1	0.2	0.4	0.6	0.9	1.2	1.5	1.9	2.2	2.7	3.1	3.6	4.0	4.5
9.5	0.0	0.1	0.2	0.4	0.6	0.9	1.2	1.6	2.0	2.4	2.8	3.3	3.8	4.3	4.8
10.0	0.0	0.1	0.2	0.4	0.7	1.0	1.3	1.7	2.1	2.5	3.0	3.5	4.0	4.5	5.0
10.5	0.0	0.1	0.3	0.5	0.7	1.0	1.3	1.7	2.2	2.6	3.1	3.6	4.2	4.7	5.2
11.0	0.0	0.1	0.3	0.5	0.7	1.1	1.4	1.7	2.3	2.8	3.3	3.8	4.4	4.9	5.5
11.5	0.0	0.1	0.3	0.5	0.8	1.1	1.5	1.8	2.3	2.9	3.4	4.0	4.6	5.1	5.8
12.0	0.0	0.1	0.3	0.5	0.8	1.1	1.5	1.9	2.5	3.0	3.6	4.1	4.8	5.4	6.0
12.5	0.0	0.1	0.3	0.5	0.8	1.2	1.6	1.9	2.6	3.1	3.7	4.3	5.0	5.6	6.2
13.0	0.0	0.1	0.3	0.6	0.9	1.2	1.7	2.2	2.7	3.2	3.9	4.5	5.1	5.8	6.5
13.5	0.0	0.1	0.3	0.6	0.9	1.3	1.7	2.2	2.8	3.4	4.0	4.7	5.3	6.0	6.8
14.0	0.0	0.2	0.3	0.6	0.9	1.3	1.8	2.3	2.9	3.5	4.2	4.8	5.5	6.3	7.0
14.5	0.0	0.2	0.4	0.6	1.0	1.4	1.9	2.4	3.0	3.6	4.3	5.0	5.7	6.5	7.2
15.0	0.0	0.2	0.4	0.6	1.0	1.4	1.9	2.5	3.1	3.8	4.4	5.2	5.9	6.7	7.5
15.5	0.0	0.2	0.4	0.7	1.0	1.5	2.0	2.6	3.2	3.9	4.6	5.4	6.1	6.9	7.8
16.0	0.0	0.2	0.4	0.7	1.1	1.5	2.1	2.6	3.3	4.0	4.7	5.5	6.3	7.2	8.0
16.5	0.0	0.2	0.4	0.7	1.1	1.6	2.1	2.7	3.4	4.1	4.9	5.7	6.5	7.4	8.2
17.0	0.0	0.2	0.4	0.7	1.1	1.6	2.2	2.8	3.5	4.2	5.0	5.9	6.7	7.6	8.5
17.5	0.0	0.2	0.4	0.8	1.2	1.7	2.2	2.9	3.6	4.4	5.2	6.0	6.9	7.8	8.8
18.0	0.0	0.2	0.4	0.8	1.2	1.7	2.3	3.0	3.7	4.5	5.3	6.2	7.1	8.1	9.0
18.5	0.1	0.2	0.5	0.8	1.2	1.8	2.4	3.1	3.8	4.6	5.5	6.4	7.3	8.3	9.2
19.0	0.1	0.2	0.5	0.8	1.3	1.8	2.4	3.1	3.9	4.8	5.6	6.6	7.5	8.5	9.5
19.5	0.1	0.2	0.5	0.8	1.3	1.9	2.5	3.2	4.0	4.9	5.8	6.7	7.7	8.7	9.8
20.0	0.1	0.2	0.5	0.9	1.3	1.9	2.6	3.3	4.1	5.0	5.9	6.9	7.9	9.0	10.0

Obtain from the predictions the high water and low water, one of which is before and the other after the time for which the height is required. The difference between the times of occurrence of these tides is the duration of rise or fall, and the difference between their heights is the range of tide for the above table. Find the difference between the nearest high or low water and the time for which the height is required.

Enter the table with the duration of rise or fall, printed in heavy-faced type, which most nearly agrees with the actual value, and on that horizontal line find the time from the nearest high or low water which agrees most nearly with the corresponding actual difference. The correction sought is in the column directly below, on the line with the range of tide.

When the nearest tide is high water, subtract the correction.

When the nearest tide is low, add the correction.

TABLE 4.—LOCAL MEAN TIME OF SUNRISE AND SUNSET

EXPLANATION OF TABLE

This table gives the local mean time of the rising and setting of the Sun's upper limb for every fifth day of the year. The times were computed for the instant when the true zenith distance of the Sun's center is $90^{\circ} 50', 34'$ having been allowed for horizontal refraction and $16'$ for semidiameter. No allowance has been made for elevation of the observer.

Because of the sensible variations which may be made in the time of rising or setting of the Sun by a difference in elevation of the observer, and by changes in the refraction, any great refinement in the interpolation of intermediate dates or latitudes in this table is unnecessary.

The value obtained from Table 4 may be converted to standard time by means of Table 5, which follows it.

TABLE 4.-SUNRISE AND SUNSET, 2020

Date	0°		5° N.		10° N.		15° N.		20° N.		25° N.	
	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.
Jan. 1	06 00	18 07	06 08	17 59	06 17	17 50	06 26	17 41	06 35	17 32	06 45	17 22
6	06 02	18 09	06 10	18 01	06 19	17 53	06 27	17 44	06 36	17 35	06 46	17 25
11	06 04	18 11	06 12	18 03	06 20	17 55	06 29	17 47	06 37	17 38	06 47	17 29
16	06 06	18 13	06 14	18 06	06 21	17 58	06 29	17 50	06 38	17 41	06 47	17 33
21	06 08	18 15	06 15	18 08	06 22	18 00	06 30	17 53	06 38	17 45	06 46	17 36
26	06 09	18 16	06 16	18 09	06 23	18 02	06 30	17 55	06 37	17 48	06 45	17 40
31	06 10	18 17	06 16	18 11	06 23	18 04	06 29	17 58	06 36	17 51	06 43	17 44
Feb. 5	06 10	18 17	06 16	18 12	06 22	18 06	06 28	18 00	06 34	17 54	06 41	17 47
10	06 11	18 18	06 16	18 13	06 21	18 07	06 27	18 02	06 32	17 57	06 38	17 51
15	06 11	18 18	06 15	18 13	06 20	18 09	06 25	18 04	06 30	17 59	06 35	17 54
20	06 10	18 17	06 14	18 13	06 18	18 09	06 22	18 05	06 27	18 01	06 31	17 57
25	06 10	18 16	06 13	18 13	06 16	18 10	06 20	18 07	06 23	18 03	06 27	18 00
Mar. 1	06 09	18 16	06 12	18 13	06 14	18 11	06 17	18 08	06 20	18 05	06 22	18 02
6	06 08	18 14	06 10	18 13	06 12	18 11	06 14	18 09	06 16	18 07	06 18	18 05
11	06 07	18 13	06 08	18 12	06 09	18 11	06 10	18 10	06 12	18 09	06 13	18 07
16	06 05	18 12	06 06	18 11	06 06	18 11	06 07	18 10	06 07	18 10	06 08	18 10
21	06 04	18 10	06 04	18 11	06 03	18 11	06 03	18 11	06 03	18 11	06 03	18 12
26	06 02	18 09	06 01	18 10	06 01	18 11	06 00	18 12	05 59	18 13	05 57	18 14
31	06 01	18 07	05 59	18 09	05 58	18 11	05 56	18 12	05 54	18 14	05 52	18 16
Apr. 5	05 59	18 06	05 57	18 08	05 55	18 10	05 52	18 13	05 50	18 16	05 47	18 18
10	05 58	18 04	05 55	18 07	05 52	18 10	05 49	18 14	05 46	18 17	05 42	18 20
15	05 57	18 03	05 53	18 07	05 49	18 11	05 46	18 14	05 42	18 18	05 38	18 23
20	05 56	18 02	05 51	18 06	05 47	18 11	05 43	18 15	05 38	18 20	05 33	18 25
25	05 55	18 01	05 50	18 06	05 45	18 11	05 40	18 16	05 35	18 22	05 29	18 27
30	05 54	18 01	05 48	18 06	05 43	18 12	05 37	18 17	05 31	18 23	05 25	18 30
May. 5	05 53	18 00	05 47	18 06	05 41	18 12	05 35	18 19	05 28	18 25	05 21	18 32
10	05 53	18 00	05 47	18 06	05 40	18 13	05 33	18 20	05 26	18 27	05 18	18 35
15	05 53	18 00	05 46	18 07	05 39	18 14	05 32	18 21	05 24	18 29	05 16	18 37
20	05 53	18 00	05 46	18 08	05 38	18 15	05 30	18 23	05 22	18 31	05 13	18 40
25	05 53	18 01	05 46	18 08	05 38	18 16	05 30	18 25	05 21	18 33	05 12	18 43
30	05 54	18 01	05 46	18 09	05 38	18 18	05 29	18 26	05 20	18 35	05 11	18 45
Jun. 4	05 55	18 02	05 46	18 10	05 38	18 19	05 29	18 28	05 20	18 37	05 10	18 47
9	05 56	18 03	05 47	18 12	05 39	18 20	05 29	18 29	05 20	18 39	05 10	18 49
14	05 57	18 04	05 48	18 13	05 39	18 22	05 30	18 31	05 20	18 40	05 10	18 51
19	05 58	18 05	05 49	18 14	05 40	18 23	05 31	18 32	05 21	18 42	05 11	18 52
24	05 59	18 06	05 50	18 15	05 41	18 24	05 32	18 33	05 22	18 43	05 12	18 53
29	06 00	18 07	05 51	18 16	05 43	18 25	05 33	18 34	05 24	18 43	05 13	18 54
Jul. 4	06 01	18 08	05 52	18 17	05 44	18 25	05 35	18 34	05 25	18 44	05 15	18 54
9	06 02	18 09	05 53	18 17	05 45	18 26	05 36	18 34	05 27	18 43	05 17	18 53
14	06 02	18 10	05 54	18 17	05 46	18 26	05 38	18 34	05 29	18 43	05 19	18 52
19	06 03	18 10	05 55	18 17	05 47	18 25	05 39	18 33	05 31	18 42	05 22	18 51
24	06 03	18 10	05 56	18 17	05 48	18 25	05 41	18 32	05 33	18 40	05 24	18 49
29	06 03	18 10	05 56	18 17	05 49	18 24	05 42	18 31	05 35	18 38	05 26	18 46
Aug. 3	06 03	18 10	05 56	18 16	05 50	18 22	05 43	18 29	05 36	18 36	05 29	18 43
8	06 02	18 09	05 56	18 15	05 51	18 21	05 44	18 27	05 38	18 33	05 31	18 40
13	06 01	18 08	05 56	18 13	05 51	18 19	05 45	18 24	05 40	18 30	05 33	18 36
18	06 00	18 07	05 56	18 12	05 51	18 16	05 46	18 21	05 41	18 26	05 35	18 32
23	05 59	18 06	05 55	18 10	05 51	18 14	05 47	18 18	05 42	18 22	05 38	18 27
28	05 58	18 04	05 54	18 08	05 51	18 11	05 47	18 15	05 44	18 18	05 39	18 22
Sep. 2	05 56	18 03	05 54	18 05	05 51	18 08	05 48	18 11	05 45	18 14	05 41	18 17
7	05 55	18 01	05 53	18 03	05 50	18 05	05 48	18 07	05 46	18 10	05 43	18 12
12	05 53	17 59	05 51	18 01	05 50	18 02	05 48	18 04	05 47	18 05	05 45	18 07
17	05 51	17 58	05 50	17 58	05 50	17 59	05 49	18 00	05 48	18 00	05 47	18 01
22	05 49	17 56	05 49	17 56	05 49	17 56	05 49	17 56	05 49	17 56	05 49	17 56
27	05 48	17 54	05 48	17 53	05 49	17 53	05 49	17 52	05 50	17 51	05 51	17 51
Oct. 2	05 46	17 52	05 47	17 51	05 49	17 50	05 50	17 48	05 51	17 47	05 53	17 45
7	05 44	17 51	05 46	17 49	05 48	17 47	05 50	17 45	05 53	17 43	05 55	17 40
12	05 43	17 50	05 46	17 47	05 48	17 44	05 51	17 41	05 54	17 39	05 57	17 35
17	05 42	17 49	05 45	17 45	05 49	17 42	05 52	17 38	05 56	17 35	05 59	17 31
22	05 41	17 48	05 45	17 44	05 49	17 40	05 53	17 36	05 57	17 31	06 02	17 27
27	05 40	17 47	05 45	17 43	05 50	17 38	05 54	17 33	05 59	17 28	06 05	17 23
Nov. 1	05 40	17 47	05 45	17 42	05 51	17 36	05 56	17 31	06 02	17 25	06 08	17 19
6	05 40	17 47	05 46	17 41	05 52	17 35	05 58	17 29	06 04	17 23	06 11	17 16
11	05 41	17 48	05 47	17 41	05 53	17 35	06 00	17 28	06 07	17 21	06 14	17 14
16	05 41	17 48	05 48	17 42	05 55	17 35	06 02	17 27	06 10	17 20	06 18	17 12
21	05 42	17 50	05 50	17 42	05 57	17 35	06 05	17 27	06 13	17 19	06 21	17 11
26	05 44	17 51	05 51	17 43	05 59	17 36	06 07	17 27	06 16	17 19	06 25	17 10
Dec. 1	05 46	17 53	05 54	17 45	06 02	17 37	06 10	17 28	06 19	17 19	06 28	17 10
6	05 47	17 55	05 56	17 47	06 04	17 38	06 13	17 29	06 22	17 20	06 32	17 11
11	05 50	17 57	05 58	17 49	06 07	17 40	06 16	17 31	06 25	17 22	06 35	17 12
16	05 52	18 00	06 01	17 51	06 09	17 42	06 18	17 33	06 28	17 24	06 38	17 14
21	05 55	18 02	06 03	17 53	06 12	17 45	06 21	17 36	06 31	17 26	06 41	17 16
26	05 57	18 05	06 06	17 56	06 14	17 47	06 23	17 38	06 33	17 29	06 43	17 19
31	05 59	18 07	06 08	17 58	06 17	17 50	06 26	17 41	06 35	17 32	06 45	17 22

Local mean time. To obtain standard time of rise or set, see Table 5.

TABLE 4.-SUNRISE AND SUNSET, 2020

375

Date	30°N.		32°N.		34°N.		36°N.		38°N.		40°N.	
	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.
Jan. 1	06 56	17 11	07 00	17 06	07 05	17 01	07 10	16 56	07 16	16 51	07 22	16 45
6	06 57	17 15	07 01	17 10	07 06	17 05	07 11	17 00	07 16	16 55	07 22	16 49
11	06 57	17 19	07 01	17 14	07 06	17 10	07 11	17 05	07 16	17 00	07 21	16 54
16	06 57	17 23	07 01	17 19	07 05	17 14	07 10	17 10	07 15	17 05	07 20	17 00
21	06 55	17 27	06 59	17 23	07 04	17 19	07 08	17 15	07 12	17 10	07 17	17 05
26	06 54	17 32	06 57	17 28	07 01	17 24	07 05	17 20	07 10	17 16	07 14	17 11
31	06 51	17 36	06 55	17 32	06 58	17 29	07 02	17 25	07 06	17 21	07 10	17 17
Feb. 5	06 48	17 40	06 51	17 37	06 54	17 34	06 58	17 30	07 01	17 27	07 05	17 23
10	06 45	17 44	06 47	17 42	06 50	17 39	06 53	17 36	06 56	17 33	07 00	17 29
15	06 40	17 48	06 43	17 46	06 45	17 43	06 48	17 41	06 51	17 38	06 54	17 35
20	06 36	17 52	06 38	17 50	06 40	17 48	06 42	17 46	06 45	17 43	06 47	17 41
25	06 31	17 56	06 33	17 54	06 34	17 52	06 36	17 51	06 38	17 49	06 40	17 47
Mar. 1	06 26	17 59	06 27	17 58	06 28	17 57	06 30	17 55	06 31	17 54	06 33	17 52
6	06 20	18 03	06 21	18 02	06 22	18 01	06 23	18 00	06 24	17 59	06 25	17 58
11	06 14	18 06	06 15	18 05	06 15	18 05	06 16	18 04	06 17	18 04	06 17	18 03
16	06 08	18 09	06 09	18 09	06 09	18 09	06 09	18 09	06 09	18 08	06 09	18 08
21	06 02	18 12	06 02	18 12	06 02	18 13	06 02	18 13	06 02	18 13	06 01	18 13
26	05 56	18 15	05 56	18 16	05 55	18 16	05 55	18 17	05 54	18 18	05 53	18 19
31	05 50	18 18	05 49	18 19	05 48	18 20	05 47	18 21	05 46	18 22	05 45	18 24
Apr. 5	05 44	18 21	05 43	18 23	05 42	18 24	05 40	18 26	05 39	18 27	05 37	18 29
10	05 38	18 24	05 37	18 26	05 35	18 28	05 33	18 30	05 31	18 32	05 29	18 34
15	05 33	18 27	05 31	18 30	05 29	18 32	05 27	18 34	05 24	18 36	05 22	18 39
20	05 28	18 31	05 25	18 33	05 23	18 36	05 20	18 38	05 17	18 41	05 14	18 44
25	05 22	18 34	05 20	18 37	05 17	18 39	05 14	18 42	05 11	18 46	05 07	18 49
30	05 18	18 37	05 15	18 40	05 12	18 43	05 08	18 47	05 05	18 50	05 01	18 54
May. 5	05 14	18 40	05 10	18 44	05 07	18 47	05 03	18 51	04 59	18 55	04 55	18 59
10	05 10	18 43	05 06	18 47	05 02	18 51	04 58	18 55	04 54	18 59	04 49	19 04
15	05 06	18 47	05 03	18 51	04 58	18 55	04 54	18 59	04 49	19 04	04 45	19 09
20	05 04	18 50	04 59	18 54	04 55	18 58	04 50	19 03	04 46	19 08	04 40	19 13
25	05 01	18 53	04 57	18 57	04 52	19 02	04 48	19 07	04 42	19 12	04 37	19 18
30	05 00	18 56	04 55	19 00	04 50	19 05	04 45	19 10	04 40	19 16	04 34	19 22
Jun. 4	04 59	18 58	04 54	19 03	04 49	19 08	04 44	19 13	04 38	19 19	04 32	19 25
9	04 58	19 00	04 53	19 05	04 48	19 11	04 43	19 16	04 37	19 22	04 31	19 28
14	04 58	19 02	04 54	19 07	04 48	19 13	04 43	19 18	04 37	19 24	04 31	19 30
19	04 59	19 04	04 54	19 09	04 49	19 14	04 43	19 20	04 37	19 26	04 31	19 32
24	05 00	19 05	04 55	19 10	04 50	19 15	04 45	19 21	04 39	19 26	04 32	19 33
29	05 02	19 05	04 57	19 10	04 52	19 15	04 46	19 21	04 40	19 27	04 34	19 33
Jul. 4	05 04	19 05	04 59	19 10	04 54	19 15	04 49	19 20	04 43	19 26	04 37	19 32
9	05 06	19 04	05 02	19 09	04 57	19 14	04 51	19 19	04 46	19 25	04 40	19 31
14	05 09	19 03	05 04	19 07	04 59	19 12	04 54	19 17	04 49	19 22	04 43	19 28
19	05 12	19 01	05 07	19 05	05 03	19 10	04 58	19 14	04 53	19 20	04 47	19 25
24	05 14	18 58	05 10	19 02	05 06	19 07	05 02	19 11	04 57	19 16	04 52	19 21
29	05 17	18 55	05 14	18 59	05 10	19 03	05 05	19 07	05 01	19 12	04 56	19 16
Aug. 3	05 20	18 51	05 17	18 55	05 13	18 59	05 09	19 03	05 05	19 07	05 01	19 11
8	05 23	18 47	05 20	18 51	05 17	18 54	05 13	18 57	05 09	19 01	05 05	19 05
13	05 26	18 43	05 23	18 46	05 20	18 49	05 17	18 52	05 14	18 55	05 10	18 59
18	05 29	18 38	05 27	18 40	05 24	18 43	05 21	18 46	05 18	18 49	05 15	18 52
23	05 32	18 32	05 30	18 35	05 28	18 37	05 25	18 39	05 22	18 42	05 20	18 45
28	05 35	18 27	05 33	18 29	05 31	18 31	05 29	18 33	05 27	18 35	05 24	18 37
Sep. 2	05 38	18 21	05 36	18 22	05 35	18 24	05 33	18 26	05 31	18 27	05 29	18 29
7	05 40	18 15	05 39	18 16	05 38	18 17	05 37	18 18	05 35	18 20	05 34	18 21
12	05 43	18 09	05 42	18 09	05 41	18 10	05 40	18 11	05 39	18 12	05 38	18 13
17	05 46	18 02	05 45	18 03	05 45	18 03	05 44	18 04	05 44	18 04	05 43	18 05
22	05 49	17 56	05 48	17 56	05 48	17 56	05 48	17 56	05 48	17 56	05 48	17 57
27	05 51	17 50	05 52	17 50	05 52	17 49	05 52	17 49	05 52	17 49	05 53	17 48
Oct. 2	05 54	17 44	05 55	17 43	05 55	17 42	05 56	17 42	05 57	17 41	05 58	17 40
7	05 57	17 38	05 58	17 37	05 59	17 36	06 00	17 35	06 01	17 33	06 03	17 32
12	06 00	17 32	06 02	17 31	06 03	17 29	06 04	17 28	06 06	17 26	06 08	17 24
17	06 03	17 27	06 05	17 25	06 07	17 23	06 09	17 21	06 11	17 19	06 13	17 17
22	06 07	17 22	06 09	17 19	06 11	17 17	06 13	17 15	06 16	17 13	06 18	17 10
27	06 10	17 17	06 13	17 14	06 15	17 12	06 18	17 09	06 21	17 06	06 24	17 03
Nov. 1	06 14	17 13	06 17	17 10	06 20	17 07	06 23	17 04	06 26	17 01	06 29	16 57
6	06 18	17 09	06 21	17 06	06 24	17 03	06 28	16 59	06 31	16 55	06 35	16 52
11	06 22	17 06	06 25	17 02	06 29	16 59	06 33	16 55	06 37	16 51	06 41	16 47
16	06 26	17 03	06 30	17 00	06 34	16 56	06 38	16 52	06 42	16 47	06 47	16 43
21	06 30	17 01	06 34	16 57	06 38	16 53	06 43	16 49	06 47	16 44	06 52	16 39
26	06 34	17 00	06 39	16 56	06 43	16 52	06 48	16 47	06 53	16 42	06 58	16 37
Dec. 1	06 38	17 00	06 43	16 55	06 47	16 51	06 52	16 46	06 57	16 41	07 03	16 35
6	06 42	17 00	06 47	16 55	06 52	16 51	06 57	16 46	07 02	16 40	07 08	16 35
11	06 46	17 01	06 51	16 56	06 55	16 51	07 01	16 46	07 06	16 41	07 12	16 35
16	06 49	17 03	06 54	16 58	06 59	16 53	07 04	16 48	07 10	16 42	07 16	16 36
21	06 52	17 05	06 57	17 00	07 02	16 55	07 07	16 50	07 12	16 44	07 18	16 38
26	06 54	17 08	06 59	17 03	07 04	16 58	07 09	16 53	07 15	16 47	07 21	16 41
31	06 56	17 11	07 00	17 06	07 05	17 01	07 10	16 56	07 16	16 51	07 22	16 45

Local mean time. To obtain standard time of rise or set, see Table 5.

TABLE 4.-SUNRISE AND SUNSET, 2020

Date	42°N.		44°N.		46°N.		48°N.		50°N.		52°N.	
	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.
Jan. 1	07 28	16 39	07 35	16 32	07 42	16 25	07 50	16 17	07 59	16 08	08 08	15 59
6	07 28	16 43	07 35	16 37	07 42	16 30	07 49	16 22	07 58	16 14	08 07	16 04
11	07 27	16 49	07 33	16 42	07 40	16 36	07 48	16 28	07 56	16 20	08 05	16 11
16	07 25	16 54	07 31	16 48	07 38	16 42	07 45	16 35	07 52	16 27	08 01	16 19
21	07 23	17 00	07 28	16 55	07 34	16 49	07 41	16 42	07 48	16 35	07 56	16 27
26	07 19	17 06	07 24	17 01	07 30	16 56	07 36	16 50	07 42	16 43	07 50	16 36
31	07 14	17 13	07 19	17 08	07 24	17 03	07 30	16 58	07 36	16 52	07 42	16 45
Feb. 5	07 09	17 19	07 13	17 15	07 18	17 10	07 23	17 05	07 28	17 00	07 34	16 54
10	07 03	17 26	07 07	17 22	07 11	17 18	07 16	17 13	07 20	17 09	07 26	17 04
15	06 57	17 32	07 00	17 29	07 04	17 25	07 07	17 21	07 12	17 17	07 16	17 13
20	06 50	17 38	06 53	17 36	06 56	17 33	06 59	17 29	07 02	17 26	07 06	17 22
25	06 42	17 45	06 45	17 42	06 47	17 40	06 50	17 37	06 53	17 34	06 56	17 31
Mar. 1	06 35	17 51	06 36	17 49	06 38	17 47	06 40	17 45	06 43	17 43	06 45	17 40
6	06 26	17 57	06 28	17 55	06 29	17 54	06 31	17 53	06 32	17 51	06 34	17 49
11	06 18	18 02	06 19	18 02	06 20	18 01	06 21	18 00	06 22	17 59	06 23	17 58
16	06 10	18 08	06 10	18 08	06 10	18 08	06 10	18 07	06 11	18 07	06 11	18 07
21	06 01	18 14	06 01	18 14	06 01	18 14	06 00	18 15	06 00	18 15	06 00	18 16
26	05 53	18 19	05 52	18 20	05 51	18 21	05 50	18 22	05 49	18 23	05 48	18 24
31	05 44	18 25	05 43	18 26	05 41	18 28	05 40	18 29	05 38	18 31	05 36	18 33
Apr. 5	05 35	18 30	05 34	18 32	05 32	18 34	05 30	18 36	05 27	18 39	05 25	18 41
10	05 27	18 36	05 25	18 38	05 22	18 41	05 20	18 44	05 17	18 47	05 14	18 50
15	05 19	18 42	05 16	18 44	05 13	18 48	05 10	18 51	05 06	18 54	05 03	18 58
20	05 11	18 47	05 08	18 50	05 04	18 54	05 01	18 58	04 56	19 02	04 52	19 07
25	05 04	18 53	05 00	18 56	04 56	19 01	04 52	19 05	04 47	19 10	04 41	19 15
30	04 57	18 58	04 53	19 02	04 48	19 07	04 43	19 12	04 38	19 18	04 32	19 24
May. 5	04 50	19 04	04 46	19 08	04 41	19 14	04 35	19 19	04 29	19 25	04 22	19 32
10	04 45	19 09	04 39	19 14	04 34	19 20	04 28	19 26	04 21	19 33	04 14	19 40
15	04 39	19 14	04 34	19 20	04 28	19 26	04 21	19 33	04 14	19 40	04 06	19 48
20	04 35	19 19	04 29	19 25	04 22	19 32	04 15	19 39	04 07	19 47	03 59	19 56
25	04 31	19 24	04 24	19 30	04 18	19 37	04 10	19 45	04 02	19 53	03 52	20 02
30	04 28	19 28	04 21	19 35	04 14	19 42	04 06	19 50	03 57	19 59	03 47	20 09
Jun. 4	04 26	19 32	04 19	19 39	04 11	19 46	04 03	19 54	03 54	20 04	03 44	20 14
9	04 24	19 35	04 17	19 42	04 09	19 50	04 01	19 58	03 51	20 08	03 41	20 18
14	04 24	19 37	04 17	19 44	04 09	19 52	04 00	20 01	03 50	20 11	03 40	20 21
19	04 24	19 39	04 17	19 46	04 09	19 54	04 00	20 03	03 50	20 13	03 40	20 23
24	04 25	19 40	04 18	19 47	04 10	19 55	04 01	20 04	03 52	20 13	03 41	20 24
29	04 27	19 40	04 20	19 47	04 12	19 55	04 04	20 03	03 54	20 13	03 43	20 24
Jul. 4	04 30	19 39	04 23	19 46	04 15	19 53	04 07	20 02	03 57	20 11	03 47	20 22
9	04 33	19 37	04 27	19 44	04 19	19 51	04 11	19 59	04 02	20 08	03 52	20 18
14	04 37	19 34	04 31	19 41	04 23	19 48	04 16	19 56	04 07	20 04	03 57	20 14
19	04 41	19 31	04 35	19 37	04 28	19 44	04 21	19 51	04 13	19 59	04 04	20 08
24	04 46	19 27	04 40	19 32	04 34	19 39	04 27	19 46	04 19	19 53	04 10	20 02
29	04 51	19 21	04 45	19 27	04 39	19 33	04 33	19 39	04 26	19 46	04 18	19 54
Aug. 3	04 56	19 16	04 51	19 21	04 45	19 26	04 39	19 32	04 33	19 39	04 26	19 46
8	05 01	19 10	04 56	19 14	04 51	19 19	04 46	19 24	04 40	19 30	04 33	19 37
13	05 06	19 03	05 02	19 07	04 57	19 11	04 53	19 16	04 47	19 21	04 41	19 27
18	05 11	18 55	05 08	18 59	05 04	19 03	04 59	19 07	04 55	19 12	04 50	19 17
23	05 17	18 48	05 13	18 51	05 10	18 54	05 06	18 58	05 02	19 02	04 58	19 06
28	05 22	18 40	05 19	18 42	05 16	18 45	05 13	18 48	05 10	18 52	05 06	18 55
Sep. 2	05 27	18 31	05 25	18 34	05 22	18 36	05 20	18 38	05 17	18 41	05 14	18 44
7	05 32	18 23	05 30	18 24	05 29	18 26	05 27	18 28	05 24	18 30	05 22	18 33
12	05 37	18 14	05 36	18 15	05 35	18 17	05 33	18 18	05 32	18 19	05 30	18 21
17	05 43	18 05	05 42	18 06	05 41	18 07	05 40	18 07	05 39	18 08	05 38	18 09
22	05 48	17 57	05 48	17 57	05 47	17 57	05 47	17 57	05 47	17 57	05 47	17 58
27	05 53	17 48	05 53	17 48	05 54	17 47	05 54	17 47	05 54	17 46	05 55	17 46
Oct. 2	05 58	17 39	05 59	17 38	06 00	17 38	06 01	17 37	06 02	17 35	06 03	17 34
7	06 04	17 31	06 05	17 29	06 07	17 28	06 08	17 26	06 10	17 25	06 12	17 23
12	06 09	17 23	06 11	17 21	06 13	17 19	06 15	17 17	06 18	17 14	06 20	17 12
17	06 15	17 15	06 17	17 12	06 20	17 10	06 23	17 07	06 26	17 04	06 29	17 01
22	06 21	17 07	06 24	17 04	06 27	17 01	06 30	16 58	06 34	16 54	06 38	16 50
27	06 27	17 00	06 30	16 57	06 34	16 53	06 38	16 49	06 42	16 45	06 47	16 40
Nov. 1	06 33	16 54	06 37	16 50	06 41	16 46	06 45	16 41	06 50	16 36	06 56	16 31
6	06 39	16 48	06 44	16 43	06 48	16 39	06 53	16 34	06 59	16 28	07 05	16 22
11	06 45	16 42	06 50	16 38	06 55	16 32	07 01	16 27	07 07	16 21	07 13	16 14
16	06 52	16 38	06 57	16 33	07 02	16 27	07 08	16 21	07 15	16 14	07 22	16 07
21	06 58	16 34	07 03	16 28	07 09	16 22	07 16	16 16	07 23	16 09	07 31	16 01
26	07 03	16 31	07 09	16 25	07 16	16 19	07 23	16 12	07 30	16 04	07 39	15 56
Dec. 1	07 09	16 29	07 15	16 23	07 22	16 16	07 29	16 09	07 37	16 01	07 46	15 52
6	07 14	16 28	07 20	16 22	07 27	16 15	07 35	16 07	07 43	15 59	07 53	15 49
11	07 18	16 29	07 25	16 22	07 32	16 15	07 40	16 07	07 49	15 58	07 58	15 48
16	07 22	16 30	07 29	16 23	07 36	16 16	07 44	16 07	07 53	15 59	08 03	15 49
21	07 25	16 32	07 32	16 25	07 39	16 18	07 47	16 09	07 56	16 01	08 06	15 51
26	07 27	16 35	07 34	16 28	07 41	16 21	07 49	16 13	07 58	16 04	08 08	15 54
31	07 28	16 39	07 35	16 32	07 42	16 25	07 50	16 17	07 59	16 08	08 08	15 58

Local mean time. To obtain standard time of rise or set, see Table 5.

TABLE 4.-SUNRISE AND SUNSET, 2020

377

Date	54°N.		56°N.		58°N.		60°N.		62°N.		64°N.	
	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.
Jan. 1	08 19	15 48	08 31	15 36	08 46	15 21	09 02	15 04	09 23	14 44	09 50	14 17
6	08 17	15 54	08 29	15 42	08 43	15 29	08 59	15 12	09 19	14 53	09 44	14 28
11	08 14	16 01	08 26	15 50	08 39	15 37	08 54	15 22	09 12	15 04	09 35	14 41
16	08 10	16 10	08 21	15 59	08 33	15 47	08 47	15 33	09 04	15 16	09 24	14 55
21	08 04	16 18	08 14	16 09	08 25	15 58	08 38	15 45	08 54	15 29	09 12	15 11
26	07 58	16 28	08 06	16 19	08 17	16 09	08 28	15 57	08 42	15 44	08 59	15 27
31	07 50	16 38	07 58	16 30	08 07	16 21	08 17	16 10	08 30	15 58	08 44	15 44
Feb. 5	07 41	16 48	07 48	16 41	07 56	16 32	08 06	16 23	08 16	16 13	08 29	16 00
10	07 31	16 58	07 38	16 52	07 45	16 45	07 53	16 36	08 02	16 27	08 13	16 17
15	07 21	17 08	07 27	17 03	07 33	16 57	07 40	16 50	07 48	16 42	07 57	16 33
20	07 10	17 18	07 15	17 13	07 20	17 08	07 26	17 03	07 32	16 56	07 40	16 49
25	06 59	17 28	07 03	17 24	07 07	17 20	07 12	17 16	07 17	17 10	07 23	17 04
Mar. 1	06 48	17 38	06 51	17 35	06 54	17 32	06 57	17 28	07 01	17 24	07 06	17 20
6	06 36	17 48	06 38	17 46	06 40	17 43	06 43	17 41	06 45	17 38	06 49	17 35
11	06 24	17 57	06 25	17 56	06 26	17 55	06 28	17 53	06 29	17 52	06 31	17 50
16	06 11	18 07	06 12	18 06	06 12	18 06	06 13	18 06	06 13	18 05	06 14	18 05
21	05 59	18 16	05 59	18 17	05 58	18 17	05 57	18 18	05 57	18 19	05 56	18 20
26	05 47	18 25	05 45	18 27	05 44	18 28	05 42	18 30	05 40	18 32	05 38	18 35
31	05 34	18 35	05 32	18 37	05 30	18 40	05 27	18 42	05 24	18 46	05 21	18 49
Apr. 5	05 22	18 44	05 19	18 47	05 16	18 51	05 12	18 55	05 08	18 59	05 03	19 04
10	05 10	18 53	05 06	18 57	05 02	19 02	04 57	19 07	04 52	19 13	04 45	19 19
15	04 58	19 03	04 54	19 08	04 48	19 13	04 42	19 19	04 36	19 26	04 28	19 34
20	04 47	19 12	04 41	19 18	04 35	19 24	04 28	19 32	04 20	19 40	04 10	19 50
25	04 36	19 21	04 29	19 28	04 22	19 36	04 14	19 44	04 04	19 54	03 53	20 05
30	04 25	19 31	04 18	19 38	04 09	19 47	04 00	19 56	03 49	20 08	03 36	20 21
May. 5	04 15	19 40	04 07	19 48	03 57	19 58	03 46	20 09	03 34	20 22	03 19	20 37
10	04 05	19 49	03 56	19 58	03 46	20 09	03 34	20 21	03 19	20 36	03 02	20 53
15	03 57	19 57	03 47	20 07	03 35	20 19	03 21	20 33	03 05	20 49	02 46	21 09
20	03 49	20 05	03 38	20 16	03 25	20 29	03 10	20 44	02 53	21 03	02 30	21 25
25	03 42	20 13	03 30	20 25	03 17	20 39	03 00	20 55	02 41	21 15	02 16	21 41
30	03 36	20 20	03 24	20 32	03 09	20 47	02 52	21 05	02 30	21 27	02 02	21 56
Jun. 4	03 32	20 25	03 19	20 39	03 03	20 54	02 45	21 13	02 22	21 37	01 50	22 09
9	03 29	20 30	03 15	20 44	02 59	21 00	02 40	21 20	02 15	21 45	01 40	22 20
14	03 27	20 34	03 13	20 48	02 57	21 04	02 37	21 25	02 11	21 51	01 34	22 28
19	03 27	20 36	03 13	20 50	02 56	21 07	02 36	21 27	02 09	21 54	01 31	22 32
24	03 29	20 36	03 14	20 51	02 58	21 07	02 37	21 28	02 11	21 54	01 33	22 32
29	03 31	20 36	03 17	20 50	03 01	21 06	02 41	21 26	02 15	21 51	01 39	22 27
Jul. 4	03 35	20 33	03 22	20 47	03 06	21 03	02 46	21 22	02 22	21 46	01 48	22 19
9	03 40	20 30	03 27	20 43	03 12	20 58	02 54	21 16	02 31	21 38	02 00	22 08
14	03 46	20 25	03 34	20 37	03 20	20 51	03 03	21 08	02 41	21 29	02 14	21 56
19	03 53	20 18	03 42	20 30	03 28	20 43	03 13	20 59	02 53	21 18	02 29	21 42
24	04 01	20 11	03 50	20 22	03 38	20 34	03 23	20 48	03 06	21 05	02 44	21 26
29	04 09	20 03	03 59	20 13	03 48	20 24	03 35	20 37	03 19	20 52	03 00	21 11
Aug. 3	04 17	19 54	04 08	20 03	03 58	20 13	03 46	20 24	03 33	20 38	03 16	20 54
8	04 26	19 44	04 18	19 52	04 09	20 01	03 58	20 11	03 46	20 23	03 31	20 37
13	04 35	19 33	04 28	19 40	04 20	19 48	04 10	19 57	04 00	20 08	03 47	20 20
18	04 44	19 22	04 38	19 29	04 30	19 36	04 22	19 43	04 13	19 52	04 02	20 03
23	04 53	19 11	04 47	19 16	04 41	19 22	04 34	19 29	04 27	19 37	04 17	19 46
28	05 02	18 59	04 57	19 04	04 52	19 09	04 46	19 14	04 40	19 21	04 32	19 28
Sep. 2	05 11	18 47	05 07	18 51	05 03	18 55	04 58	18 59	04 53	19 04	04 47	19 10
7	05 20	18 35	05 17	18 38	05 14	18 41	05 10	18 44	05 06	18 48	05 01	18 53
12	05 28	18 23	05 26	18 25	05 24	18 27	05 22	18 29	05 19	18 32	05 16	18 35
17	05 37	18 10	05 36	18 11	05 35	18 12	05 33	18 14	05 32	18 15	05 30	18 17
22	05 46	17 58	05 46	17 58	05 46	17 58	05 45	17 59	05 45	17 59	05 44	17 59
27	05 55	17 45	05 56	17 45	05 56	17 44	05 57	17 43	05 58	17 43	05 58	17 42
Oct. 2	06 04	17 33	06 06	17 32	06 07	17 30	06 09	17 28	06 11	17 26	06 13	17 24
7	06 14	17 21	06 16	17 19	06 18	17 16	06 21	17 13	06 24	17 10	06 27	17 07
12	06 23	17 09	06 26	17 06	06 29	17 02	06 33	16 59	06 37	16 54	06 42	16 49
17	06 32	16 57	06 36	16 53	06 40	16 49	06 45	16 44	06 51	16 39	06 57	16 32
22	06 42	16 46	06 47	16 41	06 52	16 36	06 58	16 30	07 04	16 23	07 12	16 15
27	06 52	16 35	06 57	16 30	07 03	16 23	07 10	16 16	07 18	16 08	07 28	15 59
Nov. 1	07 01	16 25	07 08	16 19	07 15	16 11	07 23	16 03	07 33	15 54	07 44	15 43
6	07 11	16 15	07 18	16 08	07 27	16 00	07 36	15 50	07 47	15 40	08 00	15 27
11	07 21	16 07	07 29	15 58	07 38	15 49	07 49	15 39	08 01	15 26	08 16	15 11
16	07 30	15 59	07 39	15 50	07 50	15 39	08 01	15 28	08 15	15 14	08 32	14 57
21	07 40	15 52	07 49	15 42	08 01	15 31	08 14	15 18	08 29	15 02	08 48	14 44
26	07 48	15 46	07 59	15 36	08 11	15 23	08 25	15 09	08 42	14 52	09 03	14 31
Dec. 1	07 56	15 42	08 07	15 31	08 20	15 18	08 36	15 02	08 54	14 44	09 17	14 21
6	08 03	15 39	08 15	15 27	08 29	15 13	08 45	14 57	09 05	14 37	09 30	14 12
11	08 09	15 38	08 21	15 25	08 36	15 11	08 53	14 54	09 13	14 33	09 40	14 06
16	08 14	15 38	08 26	15 25	08 41	15 10	08 59	14 53	09 20	14 32	09 48	14 04
21	08 17	15 40	08 30	15 27	08 45	15 12	09 02	14 54	09 24	14 33	09 52	14 04
26	08 19	15 43	08 31	15 30	08 46	15 16	09 03	14 58	09 25	14 37	09 53	14 09
31	08 19	15 48	08 31	15 35	08 46	15 21	09 03	15 04	09 23	14 43	09 50	14 17

Local mean time. To obtain standard time of rise or set, see Table 5.

Date	66°N.		68°N.		70°N.		72°N.		74°N.		76°N.	
	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.
Jan. 1	10 28	13 39	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
6	10 19	13 53	11 25	12 47	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
11	10 06	14 10	10 55	13 21	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
16	09 51	14 28	10 31	13 49	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
21	09 36	14 48	10 08	14 16	11 00	13 23	-- --	-- --	-- --	-- --	-- --	-- --
26	09 19	15 07	09 45	14 40	10 24	14 02	11 53	12 33	-- --	-- --	-- --	-- --
31	09 02	15 26	09 24	15 04	09 54	14 34	10 40	13 48	-- --	-- --	-- --	-- --
Feb. 5	08 44	15 45	09 02	15 27	09 27	15 03	10 00	14 29	10 58	13 31	-- --	-- --
10	08 26	16 04	08 41	15 48	09 01	15 29	09 27	15 03	10 05	14 25	11 18	13 12
15	08 07	16 22	08 20	16 09	08 36	15 54	08 57	15 33	09 24	15 06	10 06	14 24
20	07 49	16 40	07 59	16 30	08 12	16 17	08 28	16 01	08 49	15 40	09 19	15 11
25	07 30	16 58	07 39	16 49	07 49	16 39	08 01	16 27	08 17	16 11	08 38	15 50
Mar. 1	07 11	17 15	07 18	17 08	07 25	17 01	07 34	16 52	07 46	16 41	08 01	16 26
6	06 52	17 32	06 57	17 27	07 02	17 22	07 08	17 16	07 16	17 08	07 26	16 59
11	06 33	17 48	06 36	17 46	06 39	17 43	06 42	17 40	06 47	17 35	06 53	17 30
16	06 14	18 05	06 15	18 04	06 16	18 03	06 17	18 03	06 18	18 02	06 20	18 01
21	05 55	18 21	05 54	18 22	05 53	18 24	05 51	18 26	05 49	18 28	05 46	18 31
26	05 36	18 37	05 33	18 40	05 29	18 44	05 25	18 49	05 20	18 54	05 13	19 02
31	05 17	18 54	05 12	18 59	05 06	19 05	04 59	19 12	04 50	19 21	04 39	19 33
Apr. 5	04 57	19 10	04 50	19 17	04 42	19 26	04 32	19 36	04 20	19 49	04 03	20 07
10	04 38	19 27	04 29	19 36	04 18	19 47	04 05	20 01	03 48	20 19	03 25	20 43
15	04 18	19 44	04 07	19 55	03 54	20 09	03 37	20 27	03 14	20 51	02 42	21 25
20	03 59	20 01	03 45	20 15	03 29	20 33	03 07	20 55	02 37	21 27	01 49	22 20
25	03 39	20 19	03 23	20 36	03 02	20 57	02 34	21 27	01 52	22 12	** **	** **
30	03 20	20 37	03 00	20 58	02 34	21 24	01 57	22 04	00 44	23 45	** **	** **
May. 5	03 00	20 56	02 37	21 21	02 04	21 55	01 09	22 57	** **	** **	** **	** **
10	02 40	21 15	02 12	21 45	01 28	22 32	** **	** **	** **	** **	** **	** **
15	02 21	21 35	01 45	22 13	00 33	23 46	** **	** **	** **	** **	** **	** **
20	02 00	21 56	01 14	22 46	** **	** **	** **	** **	** **	** **	** **	** **
25	01 40	22 18	00 27	23 52	** **	** **	** **	** **	** **	** **	** **	** **
30	01 19	22 40	** **	** **	** **	** **	** **	** **	** **	** **	** **	** **
Jun. 4	00 57	23 04	** **	** **	** **	** **	** **	** **	** **	** **	** **	** **
9	00 32	23 33	** **	** **	** **	** **	** **	** **	** **	** **	** **	** **
14	** **	** **	** **	** **	** **	** **	** **	** **	** **	** **	** **	** **
19	** **	** **	** **	** **	** **	** **	** **	** **	** **	** **	** **	** **
24	** **	** **	** **	** **	** **	** **	** **	** **	** **	** **	** **	** **
29	** **	23 54	** **	** **	** **	** **	** **	** **	** **	** **	** **	** **
Jul. 4	00 44	23 20	** **	** **	** **	** **	** **	** **	** **	** **	** **	** **
9	01 10	22 56	** **	** **	** **	** **	** **	** **	** **	** **	** **	** **
14	01 33	22 35	** **	** **	** **	** **	** **	** **	** **	** **	** **	** **
19	01 55	22 15	00 51	23 12	** **	** **	** **	** **	** **	** **	** **	** **
24	02 15	21 54	01 32	22 36	** **	** **	** **	** **	** **	** **	** **	** **
29	02 36	21 34	02 01	22 07	01 00	23 03	** **	** **	** **	** **	** **	** **
Aug. 3	02 55	21 14	02 27	21 41	01 46	22 20	** **	** **	** **	** **	** **	** **
8	03 14	20 55	02 51	21 17	02 20	21 47	01 29	22 33	** **	** **	** **	** **
13	03 32	20 35	03 13	20 53	02 48	21 17	02 13	21 50	01 09	22 47	** **	** **
18	03 49	20 16	03 34	20 31	03 14	20 50	02 47	21 16	02 07	21 53	00 40	23 03
23	04 07	19 56	03 54	20 09	03 37	20 24	03 16	20 44	02 48	21 12	02 03	21 53
28	04 23	19 37	04 13	19 47	04 00	19 59	03 43	20 15	03 22	20 36	02 51	21 05
Sep. 2	04 40	19 17	04 31	19 25	04 21	19 35	04 08	19 47	03 52	20 03	03 30	20 24
7	04 56	18 58	04 49	19 04	04 42	19 11	04 32	19 20	04 20	19 32	04 04	19 47
12	05 12	18 38	05 07	18 43	05 02	18 48	04 55	18 54	04 47	19 02	04 36	19 12
17	05 28	18 19	05 25	18 22	05 22	18 25	05 18	18 28	05 13	18 32	05 07	18 38
22	05 43	18 00	05 43	18 01	05 42	18 01	05 40	18 02	05 39	18 03	05 37	18 05
27	05 59	17 41	06 00	17 40	06 01	17 38	06 03	17 37	06 04	17 35	06 06	17 32
Oct. 2	06 15	17 22	06 18	17 19	06 21	17 15	06 25	17 11	06 30	17 06	06 36	16 59
7	06 31	17 03	06 36	16 58	06 41	16 52	06 48	16 45	06 56	16 37	07 07	16 25
12	06 48	16 44	06 54	16 37	07 02	16 29	07 12	16 19	07 24	16 07	07 40	15 51
17	07 04	16 25	07 13	16 16	07 23	16 06	07 36	15 53	07 53	15 36	08 15	15 13
22	07 21	16 06	07 32	15 55	07 45	15 42	08 02	15 25	08 24	15 03	08 55	14 32
27	07 39	15 48	07 52	15 34	08 08	15 18	08 29	14 57	08 58	14 28	09 43	13 43
Nov. 1	07 57	15 29	08 12	15 13	08 33	14 53	08 59	14 26	09 39	13 47	11 06	12 20
6	08 15	15 11	08 34	14 52	08 59	14 27	09 34	13 52	10 36	12 50	-- --	-- --
11	08 34	14 54	08 56	14 31	09 27	14 00	10 16	13 11	-- --	-- --	-- --	-- --
16	08 53	14 36	09 20	14 09	09 59	13 30	-- --	-- --	-- --	-- --	-- --	-- --
21	09 11	14 20	09 44	13 47	10 39	12 52	-- --	-- --	-- --	-- --	-- --	-- --
26	09 30	14 04	10 10	13 24	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
Dec. 1	09 48	13 50	10 39	12 59	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
6	10 05	13 37	11 14	12 28	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
11	10 19	13 27	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
16	10 30	13 22	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
21	10 35	13 22	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
26	10 34	13 27	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
31	10 29	13 38	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --

Local mean time. To obtain standard time of rise or set, see Table 5.

TABLE 4.-SUNRISE AND SUNSET, 2020

379

Date	0° S.		5° S.		10° S.		15° S.		20° S.		25° S.	
	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.
Jan. 1	06 00	18 07	05 51	18 16	05 42	18 24	05 33	18 33	05 24	18 43	05 13	18 53
6	06 02	18 09	05 54	18 18	05 45	18 26	05 36	18 35	05 27	18 44	05 17	18 54
11	06 04	18 11	05 56	18 19	05 48	18 28	05 39	18 36	05 30	18 45	05 20	18 55
16	06 06	18 13	05 58	18 21	05 50	18 29	05 42	18 37	05 33	18 46	05 24	18 55
21	06 08	18 15	06 00	18 22	05 53	18 29	05 45	18 37	05 37	18 45	05 28	18 54
26	06 09	18 16	06 02	18 23	05 55	18 30	05 48	18 37	05 40	18 45	05 32	18 53
31	06 10	18 17	06 03	18 23	05 57	18 30	05 50	18 36	05 43	18 43	05 36	18 51
Feb. 5	06 10	18 17	06 05	18 23	05 59	18 29	05 53	18 35	05 46	18 42	05 39	18 48
10	06 11	18 18	06 06	18 23	06 00	18 28	05 55	18 33	05 49	18 39	05 43	18 45
15	06 11	18 18	06 06	18 22	06 01	18 27	05 57	18 31	05 51	18 37	05 46	18 42
20	06 10	18 17	06 06	18 21	06 02	18 25	05 58	18 29	05 54	18 33	05 49	18 38
25	06 10	18 16	06 07	18 20	06 03	18 23	06 00	18 26	05 56	18 30	05 52	18 34
Mar. 1	06 09	18 16	06 06	18 18	06 04	18 21	06 01	18 23	05 58	18 26	05 55	18 29
6	06 08	18 14	06 06	18 16	06 04	18 18	06 02	18 20	06 00	18 22	05 57	18 25
11	06 07	18 13	06 05	18 14	06 04	18 16	06 03	18 17	06 01	18 18	06 00	18 20
16	06 05	18 12	06 05	18 12	06 04	18 13	06 03	18 13	06 03	18 14	06 02	18 15
21	06 04	18 10	06 04	18 10	06 04	18 10	06 04	18 10	06 04	18 10	06 04	18 09
26	06 02	18 09	06 03	18 08	06 04	18 07	06 05	18 06	06 06	18 05	06 06	18 04
31	06 01	18 07	06 02	18 06	06 04	18 04	06 05	18 03	06 07	18 01	06 09	17 59
Apr. 5	05 59	18 06	06 02	18 04	06 04	18 01	06 06	17 59	06 08	17 57	06 11	17 54
10	05 58	18 04	06 01	18 02	06 04	17 59	06 07	17 56	06 10	17 53	06 13	17 49
15	05 57	18 03	06 00	18 00	06 04	17 56	06 07	17 52	06 11	17 49	06 15	17 45
20	05 56	18 02	06 00	17 58	06 04	17 54	06 08	17 49	06 13	17 45	06 17	17 40
25	05 55	18 01	05 59	17 56	06 04	17 52	06 09	17 47	06 14	17 41	06 20	17 36
30	05 54	18 01	05 59	17 55	06 05	17 50	06 10	17 44	06 16	17 38	06 22	17 32
May. 5	05 53	18 00	05 59	17 54	06 05	17 48	06 11	17 42	06 18	17 36	06 24	17 29
10	05 53	18 00	05 59	17 53	06 06	17 47	06 12	17 40	06 19	17 33	06 27	17 26
15	05 53	18 00	06 00	17 53	06 07	17 46	06 14	17 39	06 21	17 31	06 29	17 23
20	05 53	18 00	06 00	17 53	06 08	17 45	06 15	17 38	06 23	17 30	06 32	17 21
25	05 53	18 01	06 01	17 53	06 09	17 45	06 17	17 37	06 25	17 29	06 34	17 19
30	05 54	18 01	06 02	17 53	06 10	17 45	06 19	17 37	06 27	17 28	06 37	17 18
Jun. 4	05 55	18 02	06 03	17 54	06 11	17 45	06 20	17 37	06 29	17 28	06 39	17 18
9	05 56	18 03	06 04	17 55	06 13	17 46	06 22	17 37	06 31	17 28	06 41	17 18
14	05 57	18 04	06 05	17 55	06 14	17 47	06 23	17 38	06 33	17 28	06 43	17 18
19	05 58	18 05	06 06	17 56	06 15	17 48	06 24	17 39	06 34	17 29	06 44	17 19
24	05 59	18 06	06 08	17 58	06 16	17 49	06 25	17 40	06 35	17 30	06 45	17 20
29	06 00	18 07	06 09	17 59	06 17	17 50	06 26	17 41	06 36	17 32	06 46	17 22
Jul. 4	06 01	18 08	06 09	18 00	06 18	17 51	06 27	17 42	06 36	17 33	06 46	17 23
9	06 02	18 09	06 10	18 01	06 18	17 52	06 27	17 44	06 36	17 35	06 45	17 25
14	06 02	18 10	06 10	18 02	06 18	17 54	06 27	17 45	06 35	17 37	06 44	17 28
19	06 03	18 10	06 10	18 02	06 18	17 55	06 26	17 47	06 34	17 39	06 43	17 30
24	06 03	18 10	06 10	18 03	06 17	17 56	06 25	17 48	06 33	17 40	06 41	17 32
29	06 03	18 10	06 10	18 03	06 17	17 56	06 24	17 50	06 31	17 42	06 39	17 34
Aug. 3	06 03	18 10	06 09	18 03	06 15	17 57	06 22	17 51	06 29	17 44	06 36	17 37
8	06 02	18 09	06 08	18 03	06 14	17 58	06 20	17 52	06 26	17 46	06 33	17 39
13	06 01	18 08	06 07	18 03	06 12	17 58	06 17	17 53	06 23	17 47	06 29	17 41
18	06 00	18 07	06 05	18 03	06 10	17 58	06 14	17 53	06 19	17 48	06 25	17 43
23	05 59	18 06	06 03	18 02	06 07	17 58	06 11	17 54	06 16	17 50	06 20	17 45
28	05 58	18 04	06 01	18 01	06 05	17 58	06 08	17 54	06 12	17 51	06 15	17 47
Sep. 2	05 56	18 03	05 59	18 00	06 02	17 57	06 04	17 55	06 07	17 52	06 10	17 49
7	05 55	18 01	05 57	17 59	05 59	17 57	06 01	17 55	06 03	17 53	06 05	17 51
12	05 53	17 59	05 54	17 58	05 56	17 57	05 57	17 55	05 58	17 54	06 00	17 53
17	05 51	17 58	05 52	17 57	05 53	17 56	05 53	17 56	05 54	17 55	05 55	17 54
22	05 49	17 56	05 49	17 56	05 49	17 56	05 49	17 56	05 49	17 56	05 49	17 56
27	05 48	17 54	05 47	17 55	05 46	17 56	05 46	17 56	05 45	17 57	05 44	17 58
Oct. 2	05 46	17 52	05 45	17 54	05 43	17 55	05 42	17 57	05 40	17 58	05 39	18 00
7	05 44	17 51	05 42	17 53	05 40	17 55	05 38	17 57	05 36	18 00	05 33	18 02
12	05 43	17 50	05 40	17 52	05 38	17 55	05 35	17 58	05 32	18 01	05 29	18 05
17	05 42	17 49	05 39	17 52	05 35	17 55	05 32	17 59	05 28	18 03	05 24	18 07
22	05 41	17 48	05 37	17 52	05 33	17 56	05 29	18 00	05 24	18 05	05 19	18 10
27	05 40	17 47	05 36	17 52	05 31	17 57	05 26	18 02	05 21	18 07	05 15	18 13
Nov. 1	05 40	17 47	05 35	17 52	05 30	17 58	05 24	18 03	05 18	18 09	05 12	18 16
6	05 40	17 47	05 34	17 53	05 28	17 59	05 22	18 05	05 16	18 12	05 09	18 19
11	05 41	17 48	05 34	17 54	05 28	18 01	05 21	18 07	05 14	18 15	05 06	18 22
16	05 41	17 48	05 34	17 55	05 27	18 02	05 20	18 10	05 12	18 17	05 04	18 26
21	05 42	17 50	05 35	17 57	05 28	18 04	05 20	18 12	05 12	18 21	05 03	18 29
26	05 44	17 51	05 36	17 59	05 28	18 07	05 20	18 15	05 11	18 24	05 02	18 33
Dec. 1	05 46	17 53	05 37	18 01	05 29	18 09	05 21	18 18	05 12	18 27	05 02	18 37
6	05 47	17 55	05 39	18 03	05 31	18 12	05 22	18 21	05 12	18 30	05 02	18 40
11	05 50	17 57	05 41	18 06	05 32	18 14	05 23	18 24	05 14	18 33	05 03	18 44
16	05 52	18 00	05 43	18 08	05 35	18 17	05 25	18 26	05 16	18 36	05 05	18 47
21	05 55	18 02	05 46	18 11	05 37	18 20	05 28	18 29	05 18	18 39	05 07	18 49
26	05 57	18 05	05 48	18 13	05 40	18 22	05 30	18 31	05 21	18 41	05 10	18 51
31	05 59	18 07	05 51	18 15	05 42	18 24	05 33	18 33	05 24	18 43	05 13	18 53

Local mean time. To obtain standard time of rise or set, see Table 5.

TABLE 4.-SUNRISE AND SUNSET, 2020

Date	30° S.		32° S.		34° S.		36° S.		38° S.		40° S.	
	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.
Jan. 1	05 02	19 05	04 57	19 09	04 52	19 15	04 46	19 20	04 41	19 26	04 34	19 32
6	05 06	19 05	05 01	19 10	04 56	19 15	04 51	19 20	04 45	19 26	04 39	19 32
11	05 10	19 05	05 05	19 10	05 00	19 15	04 55	19 20	04 50	19 25	04 44	19 31
16	05 14	19 05	05 09	19 09	05 05	19 14	05 00	19 19	04 55	19 24	04 49	19 29
21	05 18	19 04	05 14	19 08	05 10	19 12	05 05	19 17	05 00	19 22	04 55	19 27
26	05 23	19 02	05 19	19 06	05 15	19 10	05 10	19 14	05 06	19 18	05 01	19 23
31	05 27	18 59	05 24	19 03	05 20	19 06	05 16	19 10	05 12	19 15	05 07	19 19
Feb. 5	05 32	18 56	05 28	18 59	05 25	19 03	05 21	19 06	05 17	19 10	05 13	19 14
10	05 36	18 52	05 33	18 55	05 30	18 58	05 26	19 01	05 23	19 05	05 19	19 08
15	05 40	18 48	05 37	18 50	05 35	18 53	05 32	18 56	05 29	18 59	05 25	19 02
20	05 44	18 43	05 42	18 45	05 39	18 48	05 37	18 50	05 34	18 53	05 31	18 55
25	05 48	18 38	05 46	18 40	05 44	18 42	05 42	18 44	05 40	18 46	05 37	18 48
Mar. 1	05 51	18 33	05 50	18 34	05 48	18 36	05 46	18 37	05 45	18 39	05 43	18 41
6	05 55	18 27	05 54	18 28	05 52	18 29	05 51	18 31	05 50	18 32	05 48	18 33
11	05 58	18 21	05 57	18 22	05 56	18 23	05 56	18 24	05 55	18 24	05 54	18 25
16	06 01	18 15	06 01	18 16	06 00	18 16	06 00	18 16	06 00	18 17	05 59	18 17
21	06 04	18 09	06 04	18 09	06 04	18 09	06 04	18 09	06 04	18 09	06 04	18 09
26	06 07	18 03	06 08	18 03	06 08	18 02	06 08	18 02	06 09	18 02	06 09	18 01
31	06 10	17 57	06 11	17 57	06 12	17 56	06 13	17 55	06 14	17 54	06 14	17 53
Apr. 5	06 13	17 51	06 14	17 50	06 16	17 49	06 17	17 48	06 18	17 47	06 19	17 45
10	06 16	17 46	06 18	17 44	06 19	17 43	06 21	17 41	06 23	17 39	06 24	17 37
15	06 19	17 40	06 21	17 38	06 23	17 36	06 25	17 34	06 27	17 32	06 29	17 30
20	06 22	17 35	06 25	17 33	06 27	17 30	06 29	17 28	06 32	17 25	06 34	17 23
25	06 25	17 30	06 28	17 27	06 31	17 25	06 33	17 22	06 36	17 19	06 39	17 16
30	06 29	17 25	06 31	17 23	06 34	17 20	06 38	17 16	06 41	17 13	06 44	17 10
May. 5	06 32	17 21	06 35	17 18	06 38	17 15	06 42	17 11	06 45	17 08	06 49	17 04
10	06 35	17 18	06 38	17 14	06 42	17 10	06 46	17 07	06 50	17 03	06 54	16 58
15	06 38	17 14	06 42	17 11	06 46	17 07	06 50	17 03	06 54	16 58	06 59	16 54
20	06 41	17 12	06 45	17 08	06 49	17 04	06 54	16 59	06 58	16 55	07 03	16 50
25	06 44	17 10	06 48	17 05	06 53	17 01	06 57	16 56	07 02	16 52	07 07	16 46
30	06 47	17 08	06 51	17 04	06 56	16 59	07 01	16 54	07 06	16 49	07 11	16 44
Jun. 4	06 49	17 07	06 54	17 03	06 59	16 58	07 04	16 53	07 09	16 48	07 15	16 42
9	06 52	17 07	06 56	17 02	07 01	16 57	07 06	16 52	07 12	16 47	07 18	16 41
14	06 54	17 07	06 58	17 02	07 03	16 57	07 09	16 52	07 14	16 47	07 20	16 41
19	06 55	17 08	07 00	17 03	07 05	16 58	07 10	16 53	07 16	16 47	07 22	16 41
24	06 56	17 09	07 01	17 04	07 06	16 59	07 11	16 54	07 17	16 48	07 23	16 43
29	06 57	17 11	07 01	17 06	07 06	17 01	07 11	16 56	07 17	16 50	07 23	16 44
Jul. 4	06 56	17 13	07 01	17 08	07 06	17 03	07 11	16 58	07 16	16 53	07 22	16 47
9	06 56	17 15	07 00	17 10	07 05	17 06	07 10	17 01	07 15	16 56	07 21	16 50
14	06 55	17 18	06 59	17 13	07 03	17 09	07 08	17 04	07 13	16 59	07 19	16 54
19	06 53	17 20	06 57	17 16	07 01	17 12	07 06	17 07	07 10	17 02	07 16	16 57
24	06 50	17 23	06 54	17 19	06 58	17 15	07 03	17 11	07 07	17 06	07 12	17 02
29	06 47	17 26	06 51	17 22	06 55	17 19	06 59	17 15	07 03	17 10	07 07	17 06
Aug. 3	06 44	17 29	06 47	17 26	06 51	17 22	06 54	17 18	06 58	17 15	07 02	17 10
8	06 40	17 32	06 43	17 29	06 46	17 26	06 49	17 22	06 53	17 19	06 57	17 15
13	06 35	17 35	06 38	17 32	06 41	17 29	06 44	17 26	06 47	17 23	06 50	17 20
18	06 30	17 38	06 33	17 35	06 35	17 33	06 38	17 30	06 41	17 27	06 44	17 24
23	06 25	17 40	06 27	17 38	06 29	17 36	06 32	17 34	06 34	17 32	06 37	17 29
28	06 20	17 43	06 21	17 41	06 23	17 40	06 25	17 38	06 27	17 36	06 29	17 34
Sep. 2	06 14	17 46	06 15	17 44	06 17	17 43	06 18	17 41	06 20	17 40	06 21	17 38
7	06 08	17 48	06 09	17 47	06 10	17 46	06 11	17 45	06 12	17 44	06 13	17 43
12	06 02	17 51	06 02	17 50	06 03	17 50	06 04	17 49	06 04	17 48	06 05	17 48
17	05 55	17 54	05 56	17 53	05 56	17 53	05 56	17 53	05 57	17 53	05 57	17 52
22	05 49	17 56	05 49	17 57	05 49	17 57	05 49	17 57	05 49	17 57	05 49	17 57
27	05 43	17 59	05 42	18 00	05 42	18 00	05 42	18 01	05 41	18 01	05 40	18 02
Oct. 2	05 37	18 02	05 36	18 03	05 35	18 04	05 34	18 05	05 33	18 06	05 32	18 07
7	05 31	18 05	05 30	18 06	05 28	18 08	05 27	18 09	05 26	18 10	05 24	18 12
12	05 25	18 08	05 23	18 10	05 22	18 11	05 20	18 13	05 18	18 15	05 16	18 17
17	05 19	18 12	05 18	18 14	05 16	18 16	05 13	18 18	05 11	18 20	05 09	18 22
22	05 14	18 15	05 12	18 17	05 10	18 20	05 07	18 22	05 04	18 25	05 02	18 28
27	05 09	18 19	05 07	18 21	05 04	18 24	05 01	18 27	04 58	18 30	04 55	18 33
Nov. 1	05 05	18 23	05 02	18 26	04 59	18 29	04 56	18 32	04 52	18 36	04 49	18 39
6	05 01	18 27	04 58	18 30	04 54	18 33	04 51	18 37	04 47	18 41	04 43	18 45
11	04 58	18 31	04 54	18 34	04 50	18 38	04 47	18 42	04 42	18 46	04 38	18 51
16	04 55	18 35	04 51	18 39	04 47	18 43	04 43	18 47	04 38	18 52	04 33	18 57
21	04 53	18 39	04 49	18 43	04 45	18 48	04 40	18 52	04 35	18 57	04 30	19 03
26	04 52	18 43	04 47	18 48	04 43	18 52	04 38	18 57	04 33	19 03	04 27	19 08
Dec. 1	04 51	18 47	04 47	18 52	04 42	18 57	04 37	19 02	04 31	19 08	04 25	19 13
6	04 51	18 51	04 47	18 56	04 42	19 01	04 36	19 06	04 31	19 12	04 25	19 18
11	04 52	18 55	04 47	19 00	04 42	19 05	04 37	19 10	04 31	19 16	04 25	19 22
16	04 54	18 58	04 49	19 03	04 43	19 08	04 38	19 14	04 32	19 20	04 26	19 26
21	04 56	19 01	04 51	19 06	04 46	19 11	04 40	19 17	04 34	19 23	04 28	19 29
26	04 59	19 03	04 54	19 08	04 48	19 13	04 43	19 19	04 37	19 25	04 31	19 31
31	05 02	19 04	04 57	19 09	04 52	19 15	04 46	19 20	04 40	19 26	04 34	19 32

Local mean time. To obtain standard time of rise or set, see Table 5.

TABLE 4.-SUNRISE AND SUNSET, 2020

381

Date	42° S.		44° S.		46° S.		48° S.		50° S.		52° S.	
	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.
Jan. 1	04 28	19 39	04 21	19 46	04 13	19 54	04 04	20 02	03 55	20 12	03 44	20 22
6	04 32	19 39	04 25	19 46	04 18	19 53	04 09	20 01	04 00	20 11	03 50	20 21
11	04 38	19 37	04 31	19 44	04 24	19 51	04 16	19 59	04 07	20 08	03 57	20 18
16	04 43	19 35	04 37	19 42	04 30	19 49	04 22	19 56	04 14	20 04	04 05	20 14
21	04 49	19 32	04 43	19 38	04 37	19 45	04 30	19 52	04 22	20 00	04 13	20 08
26	04 56	19 28	04 50	19 34	04 44	19 40	04 38	19 47	04 30	19 54	04 22	20 02
31	05 02	19 24	04 57	19 29	04 52	19 34	04 46	19 40	04 39	19 47	04 32	19 54
Feb. 5	05 09	19 18	05 04	19 23	04 59	19 28	04 54	19 33	04 48	19 39	04 41	19 46
10	05 15	19 12	05 11	19 16	05 07	19 21	05 02	19 26	04 57	19 31	04 51	19 36
15	05 22	19 06	05 18	19 09	05 14	19 13	05 10	19 17	05 05	19 22	05 00	19 27
20	05 28	18 58	05 25	19 01	05 22	19 05	05 18	19 08	05 14	19 12	05 10	19 17
25	05 35	18 51	05 32	18 53	05 29	18 56	05 26	18 59	05 23	19 02	05 19	19 06
Mar. 1	05 41	18 43	05 39	18 45	05 36	18 47	05 34	18 50	05 31	18 52	05 28	18 55
6	05 47	18 35	05 45	18 36	05 44	18 38	05 42	18 40	05 40	18 42	05 38	18 44
11	05 53	18 26	05 52	18 27	05 51	18 28	05 49	18 30	05 48	18 31	05 46	18 32
16	05 59	18 18	05 58	18 18	05 57	18 19	05 57	18 19	05 56	18 20	05 55	18 21
21	06 04	18 09	06 04	18 09	06 04	18 09	06 04	18 09	06 04	18 09	06 04	18 09
26	06 10	18 01	06 10	18 00	06 11	18 00	06 11	17 59	06 12	17 58	06 13	17 58
31	06 15	17 52	06 16	17 51	06 17	17 50	06 19	17 49	06 20	17 47	06 21	17 46
Apr. 5	06 21	17 44	06 22	17 42	06 24	17 40	06 26	17 39	06 28	17 37	06 30	17 35
10	06 26	17 35	06 28	17 33	06 30	17 31	06 33	17 29	06 35	17 26	06 38	17 24
15	06 32	17 28	06 34	17 25	06 37	17 22	06 40	17 19	06 43	17 16	06 46	17 13
20	06 37	17 20	06 40	17 17	06 43	17 14	06 47	17 10	06 51	17 06	06 55	17 02
25	06 43	17 13	06 46	17 09	06 50	17 05	06 54	17 01	06 58	16 57	07 03	16 52
30	06 48	17 06	06 52	17 02	06 56	16 58	07 01	16 53	07 06	16 48	07 11	16 43
May. 5	06 53	17 00	06 58	16 55	07 03	16 50	07 08	16 45	07 13	16 40	07 19	16 33
10	06 59	16 54	07 03	16 49	07 09	16 44	07 14	16 38	07 20	16 32	07 27	16 25
15	07 04	16 49	07 09	16 43	07 15	16 38	07 21	16 32	07 27	16 25	07 35	16 18
20	07 08	16 44	07 14	16 39	07 20	16 33	07 27	16 26	07 34	16 19	07 42	16 11
25	07 13	16 41	07 19	16 35	07 25	16 28	07 32	16 21	07 40	16 14	07 48	16 05
30	07 17	16 38	07 23	16 32	07 30	16 25	07 38	16 17	07 46	16 09	07 54	16 00
Jun. 4	07 21	16 36	07 27	16 29	07 34	16 22	07 42	16 15	07 50	16 06	08 00	15 57
9	07 24	16 35	07 31	16 28	07 38	16 21	07 46	16 13	07 54	16 04	08 04	15 55
14	07 26	16 34	07 33	16 28	07 40	16 20	07 49	16 12	07 57	16 03	08 07	15 54
19	07 28	16 35	07 35	16 28	07 42	16 21	07 50	16 13	07 59	16 04	08 09	15 54
24	07 29	16 36	07 36	16 29	07 43	16 22	07 51	16 14	08 00	16 05	08 10	15 55
29	07 29	16 38	07 36	16 31	07 43	16 24	07 51	16 16	08 00	16 07	08 10	15 58
Jul. 4	07 28	16 41	07 35	16 34	07 42	16 27	07 50	16 19	07 58	16 11	08 08	16 01
9	07 27	16 44	07 33	16 38	07 40	16 31	07 48	16 23	07 56	16 15	08 05	16 06
14	07 24	16 48	07 30	16 42	07 37	16 35	07 44	16 28	07 52	16 20	08 01	16 11
19	07 21	16 52	07 27	16 46	07 33	16 40	07 40	16 33	07 48	16 26	07 56	16 17
24	07 17	16 56	07 22	16 51	07 28	16 45	07 35	16 39	07 42	16 32	07 50	16 24
29	07 12	17 01	07 17	16 56	07 23	16 51	07 29	16 45	07 35	16 38	07 42	16 31
Aug. 3	07 07	17 06	07 11	17 01	07 16	16 56	07 22	16 51	07 28	16 45	07 34	16 39
8	07 01	17 11	07 05	17 07	07 09	17 02	07 14	16 57	07 20	16 52	07 26	16 46
13	06 54	17 16	06 58	17 12	07 02	17 08	07 06	17 04	07 11	16 59	07 16	16 54
18	06 47	17 21	06 50	17 18	06 54	17 14	06 58	17 11	07 02	17 06	07 06	17 02
23	06 39	17 26	06 42	17 24	06 45	17 20	06 49	17 17	06 52	17 14	06 56	17 10
28	06 31	17 31	06 34	17 29	06 36	17 27	06 39	17 24	06 42	17 21	06 45	17 18
Sep. 2	06 23	17 37	06 25	17 35	06 27	17 33	06 29	17 31	06 32	17 28	06 34	17 26
7	06 15	17 42	06 16	17 40	06 18	17 39	06 19	17 37	06 21	17 36	06 23	17 34
12	06 06	17 47	06 07	17 46	06 08	17 45	06 09	17 44	06 10	17 43	06 11	17 42
17	05 57	17 52	05 58	17 52	05 58	17 51	05 59	17 51	05 59	17 50	06 00	17 50
22	05 49	17 57	05 49	17 57	05 48	17 58	05 48	17 58	05 48	17 58	05 48	17 58
27	05 40	18 02	05 39	18 03	05 39	18 04	05 38	18 05	05 37	18 06	05 36	18 06
Oct. 2	05 31	18 08	05 30	18 09	05 29	18 10	05 28	18 12	05 26	18 13	05 25	18 15
7	05 23	18 13	05 21	18 15	05 19	18 17	05 17	18 19	05 15	18 21	05 13	18 23
12	05 14	18 19	05 12	18 21	05 10	18 24	05 07	18 26	05 05	18 29	05 02	18 32
17	05 06	18 25	05 04	18 28	05 01	18 31	04 58	18 34	04 54	18 37	04 51	18 41
22	04 59	18 31	04 56	18 34	04 52	18 38	04 48	18 41	04 44	18 46	04 40	18 50
27	04 51	18 37	04 48	18 41	04 44	18 45	04 40	18 49	04 35	18 54	04 30	18 59
Nov. 1	04 45	18 43	04 41	18 47	04 36	18 52	04 31	18 57	04 26	19 02	04 20	19 08
6	04 39	18 50	04 34	18 54	04 29	18 59	04 23	19 05	04 17	19 11	04 11	19 18
11	04 33	18 56	04 28	19 01	04 22	19 07	04 16	19 13	04 10	19 19	04 02	19 27
16	04 28	19 02	04 23	19 08	04 17	19 14	04 10	19 21	04 03	19 28	03 55	19 36
21	04 24	19 08	04 18	19 14	04 12	19 21	04 05	19 28	03 57	19 36	03 48	19 45
26	04 21	19 14	04 15	19 21	04 08	19 28	04 00	19 35	03 52	19 44	03 43	19 53
Dec. 1	04 19	19 20	04 12	19 26	04 05	19 34	03 57	19 42	03 48	19 51	03 39	20 00
6	04 18	19 25	04 11	19 32	04 03	19 39	03 55	19 48	03 46	19 57	03 36	20 07
11	04 18	19 29	04 11	19 36	04 03	19 44	03 54	19 53	03 45	20 02	03 34	20 13
16	04 19	19 33	04 12	19 40	04 04	19 48	03 55	19 57	03 45	20 07	03 34	20 17
21	04 21	19 36	04 14	19 43	04 06	19 51	03 57	20 00	03 47	20 10	03 36	20 20
26	04 24	19 38	04 16	19 45	04 09	19 53	04 00	20 02	03 50	20 11	03 39	20 22
31	04 28	19 39	04 20	19 46	04 13	19 54	04 04	20 02	03 54	20 12	03 44	20 22

Local mean time. To obtain standard time of rise or set, see Table 5.

Date	54° S.		56° S.		58° S.		60° S.	
	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.	Rise h. m.	Set h. m.
Jan. 1	03 32	20 34	03 18	20 48	03 02	21 04	02 42	21 24
6	03 38	20 32	03 25	20 45	03 09	21 01	02 51	21 20
11	03 46	20 29	03 33	20 41	03 18	20 56	03 01	21 13
16	03 54	20 24	03 42	20 36	03 29	20 49	03 12	21 05
21	04 04	20 18	03 53	20 29	03 40	20 41	03 25	20 56
26	04 13	20 10	04 03	20 20	03 52	20 32	03 38	20 45
31	04 24	20 02	04 14	20 11	04 04	20 21	03 52	20 33
Feb. 5	04 34	19 53	04 26	20 01	04 16	20 10	04 06	20 20
10	04 44	19 43	04 37	19 50	04 29	19 58	04 20	20 07
15	04 55	19 32	04 48	19 38	04 41	19 45	04 33	19 53
20	05 05	19 21	05 00	19 26	04 54	19 32	04 47	19 39
25	05 15	19 10	05 11	19 14	05 06	19 19	05 00	19 24
Mar. 1	05 25	18 58	05 22	19 01	05 18	19 05	05 13	19 10
6	05 35	18 46	05 32	18 49	05 29	18 51	05 26	18 55
11	05 45	18 34	05 43	18 36	05 41	18 37	05 39	18 40
16	05 54	18 21	05 53	18 22	05 52	18 23	05 51	18 24
21	06 04	18 09	06 04	18 09	06 04	18 09	06 03	18 09
26	06 13	17 57	06 14	17 56	06 15	17 55	06 16	17 54
31	06 22	17 45	06 24	17 43	06 26	17 41	06 28	17 39
Apr. 5	06 32	17 33	06 34	17 30	06 37	17 27	06 40	17 24
10	06 41	17 21	06 44	17 17	06 48	17 14	06 52	17 09
15	06 50	17 09	06 54	17 05	06 59	17 00	07 04	16 55
20	06 59	16 58	07 04	16 53	07 10	16 47	07 16	16 41
25	07 08	16 47	07 14	16 41	07 20	16 34	07 28	16 27
30	07 17	16 36	07 24	16 30	07 31	16 22	07 40	16 14
May. 5	07 26	16 27	07 33	16 19	07 42	16 11	07 52	16 01
10	07 35	16 18	07 43	16 09	07 52	16 00	08 03	15 49
15	07 43	16 09	07 52	16 00	08 02	15 50	08 14	15 38
20	07 51	16 02	08 01	15 52	08 12	15 41	08 25	15 28
25	07 58	15 56	08 09	15 45	08 21	15 33	08 35	15 19
30	08 04	15 51	08 16	15 39	08 29	15 26	08 44	15 11
Jun. 4	08 10	15 47	08 22	15 35	08 36	15 21	08 52	15 05
9	08 15	15 44	08 27	15 32	08 41	15 17	08 58	15 00
14	08 18	15 43	08 31	15 30	08 45	15 15	09 03	14 58
19	08 20	15 43	08 33	15 30	08 48	15 15	09 05	14 58
24	08 21	15 44	08 34	15 31	08 49	15 17	09 06	14 59
29	08 21	15 47	08 33	15 34	08 48	15 20	09 05	15 03
Jul. 4	08 19	15 51	08 31	15 39	08 45	15 25	09 01	15 08
9	08 15	15 56	08 27	15 44	08 40	15 31	08 56	15 15
14	08 11	16 02	08 22	15 51	08 34	15 38	08 49	15 23
19	08 05	16 08	08 15	15 58	08 27	15 46	08 41	15 32
24	07 58	16 15	08 08	16 06	08 19	15 55	08 31	15 42
29	07 50	16 23	07 59	16 14	08 09	16 04	08 21	15 53
Aug. 3	07 42	16 31	07 50	16 23	07 59	16 14	08 09	16 04
8	07 32	16 40	07 39	16 33	07 47	16 25	07 57	16 15
13	07 22	16 48	07 28	16 42	07 36	16 35	07 44	16 27
18	07 11	16 57	07 17	16 52	07 23	16 45	07 30	16 38
23	07 00	17 06	07 05	17 01	07 10	16 56	07 16	16 50
28	06 49	17 14	06 53	17 11	06 57	17 06	07 02	17 02
Sep. 2	06 37	17 23	06 40	17 20	06 43	17 17	06 47	17 13
7	06 25	17 32	06 27	17 30	06 29	17 27	06 32	17 25
12	06 12	17 41	06 14	17 39	06 15	17 38	06 17	17 36
17	06 00	17 50	06 01	17 49	06 01	17 49	06 02	17 48
22	05 48	17 59	05 47	17 59	05 47	17 59	05 47	18 00
27	05 35	18 08	05 34	18 09	05 33	18 10	05 32	18 11
Oct. 2	05 23	18 17	05 21	18 19	05 19	18 21	05 16	18 23
7	05 11	18 26	05 08	18 29	05 05	18 32	05 01	18 36
12	04 58	18 35	04 55	18 39	04 51	18 43	04 46	18 48
17	04 47	18 45	04 42	18 50	04 37	18 55	04 32	19 01
22	04 35	18 55	04 30	19 00	04 24	19 07	04 17	19 14
27	04 24	19 05	04 18	19 11	04 11	19 18	04 03	19 27
Nov. 1	04 13	19 15	04 06	19 22	03 58	19 31	03 49	19 40
6	04 04	19 25	03 55	19 33	03 46	19 43	03 36	19 53
11	03 54	19 35	03 45	19 44	03 35	19 55	03 23	20 07
16	03 46	19 45	03 36	19 55	03 24	20 07	03 11	20 20
21	03 39	19 54	03 28	20 06	03 15	20 18	03 00	20 33
26	03 32	20 03	03 21	20 15	03 07	20 29	02 51	20 46
Dec. 1	03 28	20 12	03 15	20 24	03 00	20 39	02 43	20 57
6	03 24	20 19	03 11	20 32	02 55	20 48	02 37	21 07
11	03 22	20 25	03 09	20 39	02 52	20 55	02 33	21 15
16	03 22	20 30	03 08	20 44	02 51	21 01	02 31	21 21
21	03 24	20 33	03 10	20 47	02 53	21 04	02 32	21 25
26	03 27	20 34	03 13	20 48	02 56	21 05	02 36	21 25
31	03 32	20 34	03 18	20 48	03 02	21 04	02 42	21 24

Local mean time. To obtain standard time of rise or set, see Table 5.

TABLE 5.—REDUCTION OF LOCAL MEAN TIME TO STANDARD TIME

<i>Difference of longitude between local and standard meridian</i>	<i>Correction to local mean time to obtain standard time</i>	<i>Difference of longitude between local and standard meridian</i>	<i>Correction to local mean time to obtain standard time</i>	<i>Difference of longitude between local and standard meridian</i>	<i>Correction to local mean time to obtain standard time</i>
° ' ° '	Minutes	° ' ° '	Minutes	°	Hours
0 00 to 0 07	0	7 23 to 7 37	30	15	1
0 08 to 0 22	1	7 38 to 7 52	31	30	2
0 23 to 0 37	2	7 53 to 8 07	32	45	3
0 38 to 0 52	3	8 08 to 8 22	33	60	4
0 53 to 1 07	4	8 23 to 8 37	34	75	5
1 08 to 1 22	5	8 38 to 8 52	35	90	6
1 23 to 1 37	6	8 53 to 9 07	36	105	7
1 38 to 1 52	7	9 08 to 9 22	37	120	8
1 53 to 2 07	8	9 23 to 9 37	38	135	9
2 08 to 2 22	9	9 38 to 9 52	39	150	10
2 23 to 2 37	10	9 53 to 10 07	40	165	11
2 38 to 2 52	11	10 08 to 10 22	41	180	12
2 53 to 3 07	12	10 23 to 10 37	42		
3 08 to 3 22	13	10 38 to 10 52	43		
3 23 to 3 37	14	10 53 to 11 07	44		
3 38 to 3 52	15	11 08 to 11 22	45		
3 53 to 4 07	16	11 23 to 11 37	46		
4 08 to 4 22	17	11 38 to 11 52	47		
4 23 to 4 37	18	11 53 to 12 07	48		
4 38 to 4 52	19	12 08 to 12 22	49		
4 53 to 5 07	20	12 23 to 12 37	50		
5 08 to 5 22	21	12 38 to 12 52	51		
5 23 to 5 37	22	12 53 to 13 07	52		
5 38 to 5 52	23	13 08 to 13 22	53		
5 53 to 6 07	24	13 23 to 13 37	54		
6 08 to 6 22	25	13 38 to 13 52	55		
6 23 to 6 37	26	13 53 to 14 07	56		
6 38 to 6 52	27	14 08 to 14 22	57		
6 53 to 7 07	28	14 23 to 14 37	58		
7 08 to 7 22	29	14 38 to 14 52	59		

If local meridian is east of standard meridian, subtract the correction from local time.

If local meridian is west of standard meridian, add the correction to local time.

For differences of longitude less than 15°, use the first part of the table. For greater differences use both parts thus: 47° 23' is equivalent to 45°+ 2° 23', the correction for 45° is 3 hours, the correction for 2° 23' is 10 minutes; therefore the total correction for the difference in longitude 47° 23' is 3 hours and 10 minutes.

TABLE 6.—MOONRISE AND MOONSET

EXPLANATION OF TABLE

This table gives the time of rising and setting of the Moon's upper limb for every day in the year, at each of the following places:

Boston, Massachusetts	New York, New York	Baltimore, Maryland
Washington, D.C.	Charleston, South Carolina	Savannah, Georgia
Galveston, Texas	Panama Canal	

All of Table 6 was supplied by the Nautical Almanac Office of the United States Naval Observatory. Since Baltimore, Md., and Washington, D.C., are comparatively near to each other, a single table was compiled for a point midway between the two cities. The difference in time of moonrise and moonset at the point selected and at either city may vary between 0 and 2 minutes. In a similar way, a single table was made for Charleston, S.C., and Savannah, Ga.; and the difference in time of the moonrise or moonset at the point selected and at either city may vary between 0 and 4 minutes, which differences are of no practical importance in this table. For the Panama Canal the times were computed for a point about midway between the two ends and are applicable to the entire canal and are accurate to within a minute or two.

TABLE 6.-MOONRISE AND MOONSET, 2020

Boston, MA

Day	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		Day
	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	
1	1114	2249	1050	....	0947	....	1035	0121	1141	0141	1422	0150	1
2	1137	2348	1118	0035	1021	0028	1137	0214	1255	0217	1537	0218	2
3	1200	....	1149	0138	1101	0131	1246	0301	1410	0250	1653	0248	3
4	1224	0047	1226	0242	1150	0232	1400	0343	1526	0320	1809	0322	4
5	1250	0148	1312	0346	1249	0330	1517	0419	1643	0349	1923	0401	5
6	1320	0251	1407	0448	1357	0423	1635	0451	1801	0419	2031	0447	6
7	1354	0355	1512	0545	1511	0509	1753	0522	1919	0451	2130	0540	7
8	1436	0501	1624	0636	1628	0549	1912	0552	2035	0528	2219	0640	8
9	1527	0605	1741	0719	1747	0624	2030	0624	2146	0611	2300	0743	9
10	1628	0706	1858	0757	1906	0656	2146	0659	2249	0700	2333	0848	10
11	1736	0800	2015	0830	2023	0727	2258	0738	2342	0757	....	0952	11
12	1849	0846	2130	0900	2140	0757	....	0823	....	0857	0001	1054	12
13	2004	0926	2244	0930	2254	0830	0003	0914	0026	1000	0026	1154	13
14	2119	1000	2357	1000	....	0905	0100	1011	0102	1103	0048	1253	14
15	2232	1031	....	1032	0005	0946	0147	1111	0132	1205	0110	1353	15
16	2344	1059	0107	1108	0112	1032	0227	1212	0158	1305	0133	1453	16
17	....	1128	0215	1149	0212	1123	0300	1314	0222	1405	0157	1554	17
18	0055	1158	0318	1236	0304	1220	0328	1414	0244	1504	0224	1657	18
19	0205	1230	0415	1328	0348	1319	0353	1514	0306	1603	0255	1800	19
20	0315	1308	0504	1426	0425	1420	0416	1613	0329	1704	0333	1903	20
21	0421	1350	0546	1526	0456	1521	0439	1712	0354	1806	0418	2002	21
22	0523	1440	0622	1627	0523	1621	0501	1812	0423	1909	0512	2055	22
23	0619	1535	0652	1728	0548	1721	0525	1913	0456	2011	0614	2142	23
24	0706	1634	0719	1829	0611	1820	0551	2014	0536	2112	0722	2221	24
25	0747	1735	0743	1928	0633	1919	0621	2117	0624	2209	0833	2256	25
26	0821	1837	0806	2027	0656	2019	0656	2218	0720	2259	0945	2326	26
27	0850	1938	0829	2126	0721	2119	0738	2317	0823	2342	1058	2354	27
28	0916	2038	0853	2225	0748	2221	0828	....	0931	....	1210	....	28
29	0940	2137	0918	2326	0820	2322	0926	0011	1042	0019	1323	0021	29
30	1003	2235	....	....	0857	....	1031	0059	1155	0052	1437	0049	30
31	1026	2335	....	....	0942	0023	....	....	1308	0122	....	....	31

Day	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		Day
	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	
1	1551	0120	1802	0213	1831	0414	1746	0512	1725	0705	1712	0801	1
2	1704	0156	1849	0312	1856	0518	1808	0611	1755	0806	1800	0859	2
3	1813	0238	1928	0416	1919	0619	1830	0711	1831	0907	1857	0952	3
4	1916	0327	2001	0521	1941	0720	1855	0811	1914	1007	1959	1038	4
5	2010	0424	2029	0626	2004	0819	1922	0912	2005	1103	2107	1118	5
6	2054	0526	2053	0729	2027	0919	1954	1013	2103	1154	2216	1152	6
7	2131	0631	2116	0830	2052	1019	2032	1114	2208	1238	2327	1222	7
8	2201	0736	2138	0930	2121	1120	2118	1212	2317	1316	....	1250	8
9	2228	0840	2201	1029	2156	1221	2212	1307	....	1350	0039	1316	9
10	2251	0941	2225	1129	2238	1322	2314	1357	0029	1420	0153	1343	10
11	2314	1042	2252	1229	2328	1421	....	1440	0143	1448	0308	1412	11
12	2336	1141	2324	1331	....	1515	0023	1518	0259	1516	0426	1446	12
13	2359	1240	....	1433	0027	1604	0136	1551	0416	1545	0545	1526	13
14	....	1341	0002	1535	0134	1646	0252	1621	0535	1617	0701	1615	14
15	0024	1443	0048	1633	0247	1722	0409	1650	0656	1655	0812	1712	15
16	0054	1546	0143	1726	0404	1755	0528	1719	0815	1740	0912	1817	16
17	0128	1649	0248	1813	0521	1825	0647	1750	0928	1833	1001	1926	17
18	0210	1750	0359	1853	0639	1854	0807	1825	1032	1933	1040	2034	18
19	0301	1846	0514	1927	0757	1923	0926	1906	1125	2039	1112	2141	19
20	0401	1937	0630	1958	0915	1955	1040	1954	1208	2145	1138	2244	20
21	0508	2020	0746	2027	1031	2032	1147	2048	1242	2251	1202	2346	21
22	0620	2056	0902	2055	1145	2114	1244	2149	1311	2355	1223	....	22
23	0734	2128	1016	2124	1254	2203	1330	2253	1335	....	1245	0046	23
24	0848	2157	1131	2157	1355	2258	1408	2358	1358	0056	1307	0146	24
25	1001	2225	1244	2234	1447	2359	1440	....	1419	0157	1331	0246	25
26	1114	2253	1355	2317	1530	....	1506	0102	1440	0256	1358	0347	26
27	1227	2323	1500	....	1605	0102	1530	0204	1503	0356	1430	0449	27
28	1340	2356	1558	0007	1635	0206	1552	0305	1528	0456	1508	0551	28
29	1452	....	1647	0104	1701	0309	1613	0404	1557	0558	1555	0651	29
30	1602	0035	1728	0206	1724	0411	1635	0504	1631	0700	1649	0747	30
31	1706	0120	1802	0310	....	....	1659	0604	....	....	1751	0836	31

Local Standard Time. Not adjusted for Daylight Savings Time.

New York, NY

Day	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		Day
	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	
1	1125	2302	1105	....	1003	....	1053	0128	1158	0149	1434	0202	1
2	1149	....	1133	0045	1037	0036	1154	0221	1310	0226	1548	0231	2
3	1213	0000	1205	0146	1119	0138	1303	0309	1424	0300	1702	0302	3
4	1238	0059	1243	0249	1208	0239	1416	0351	1538	0331	1817	0337	4
5	1305	0158	1330	0353	1307	0337	1532	0428	1654	0401	1930	0418	5
6	1335	0300	1425	0454	1414	0430	1648	0502	1811	0433	2037	0504	6
7	1411	0403	1530	0552	1527	0517	1805	0534	1927	0506	2136	0558	7
8	1454	0508	1641	0643	1644	0558	1923	0605	2042	0545	2226	0658	8
9	1545	0612	1757	0728	1801	0634	2039	0638	2152	0628	2307	0801	9
10	1646	0713	1913	0806	1918	0707	2154	0714	2255	0719	2341	0905	10
11	1753	0807	2028	0840	2035	0739	2305	0755	2348	0815	....	1007	11
12	1906	0854	2142	0912	2150	0811	....	0841	....	0915	0010	1108	12
13	2019	0935	2255	0943	2303	0845	0010	0932	0033	1017	0036	1208	13
14	2133	1010	....	1014	....	0922	0106	1029	0110	1119	0100	1306	14
15	2245	1042	0006	1047	0013	1003	0154	1128	0141	1220	0123	1404	15
16	2355	1112	0116	1124	0119	1050	0234	1229	0208	1320	0146	1503	16
17	....	1141	0222	1206	0218	1141	0308	1330	0233	1418	0211	1603	17
18	0105	1212	0325	1254	0310	1238	0338	1429	0256	1516	0240	1705	18
19	0215	1246	0421	1346	0355	1337	0404	1528	0319	1614	0312	1808	19
20	0323	1324	0511	1444	0432	1437	0428	1626	0343	1714	0350	1909	20
21	0429	1408	0554	1543	0505	1537	0451	1724	0409	1815	0436	2008	21
22	0530	1458	0630	1644	0533	1636	0514	1823	0439	1917	0531	2102	22
23	0625	1553	0701	1744	0558	1734	0539	1922	0513	2019	0632	2149	23
24	0713	1651	0729	1843	0622	1832	0606	2023	0554	2119	0739	2229	24
25	0754	1752	0754	1941	0646	1930	0637	2124	0642	2215	0849	2305	25
26	0829	1853	0818	2039	0710	2029	0713	2225	0738	2305	1000	2336	26
27	0900	1953	0842	2137	0735	2128	0756	2323	0841	2350	1111	....	27
28	0926	2051	0906	2235	0804	2229	0846	....	0948	....	1223	0005	28
29	0951	2149	0933	2335	0836	2330	0944	0017	1058	0028	1334	0034	29
30	1015	2247	....	....	0914	....	1049	0106	1209	0102	1446	0103	30
31	1039	2345	....	....	0959	0030	....	....	1321	0132	....	....	31

Day	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		Day
	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	
1	1559	0136	1808	0231	1840	0430	1758	0525	1741	0714	1730	0808	1
2	1711	0212	1856	0331	1906	0532	1821	0623	1812	0814	1819	0905	2
3	1820	0255	1936	0434	1931	0633	1844	0722	1849	0915	1915	0958	3
4	1922	0345	2009	0538	1954	0732	1910	0821	1932	1014	2017	1045	4
5	2016	0442	2038	0641	2017	0831	1938	0920	2023	1109	2123	1125	5
6	2101	0544	2104	0743	2041	0929	2011	1021	2121	1200	2232	1201	6
7	2139	0648	2128	0843	2108	1028	2050	1120	2225	1245	2342	1232	7
8	2210	0752	2151	0942	2138	1128	2136	1219	2333	1324	....	1300	8
9	2238	0855	2214	1040	2213	1229	2231	1313	....	1359	0052	1328	9
10	2302	0955	2240	1139	2256	1329	2332	1403	0044	1430	0205	1357	10
11	2326	1054	2308	1238	2346	1427	....	1447	0157	1459	0319	1427	11
12	2349	1153	2340	1339	....	1521	0040	1526	0311	1528	0435	1502	12
13	....	1251	....	1441	0045	1610	0152	1600	0427	1559	0553	1544	13
14	0013	1351	0019	1542	0152	1653	0307	1632	0545	1633	0708	1633	14
15	0039	1451	0106	1640	0304	1731	0423	1702	0704	1711	0818	1731	15
16	0110	1553	0202	1733	0419	1805	0540	1733	0822	1757	0918	1836	16
17	0145	1656	0306	1820	0535	1836	0658	1805	0934	1851	1007	1943	17
18	0228	1756	0416	1901	0652	1906	0816	1841	1038	1952	1047	2051	18
19	0319	1853	0530	1937	0808	1937	0934	1923	1132	2057	1120	2156	19
20	0419	1943	0645	2009	0924	2011	1047	2012	1215	2203	1148	2259	20
21	0525	2027	0759	2039	1040	2048	1153	2107	1250	2307	1212	2359	21
22	0636	2105	0913	2108	1153	2131	1250	2208	1320	....	1235	....	22
23	0749	2138	1027	2139	1300	2221	1337	2311	1346	0010	1258	0058	23
24	0902	2208	1140	2213	1401	2316	1416	....	1409	0110	1321	0157	24
25	1014	2237	1252	2251	1453	....	1448	0015	1431	0209	1346	0256	25
26	1125	2306	1402	2335	1537	0017	1516	0117	1454	0308	1414	0356	26
27	1237	2337	1506	....	1613	0119	1541	0218	1517	0406	1447	0457	27
28	1349	....	1604	0026	1644	0222	1603	0318	1544	0506	1526	0558	28
29	1500	0012	1653	0123	1711	0324	1626	0417	1613	0606	1613	0657	29
30	1608	0052	1735	0224	1735	0425	1649	0515	1648	0707	1708	0753	30
31	1712	0138	1810	0327	....	....	1713	0614	....	....	1809	0842	31

Local Standard Time. Not adjusted for Daylight Savings Time.

Baltimore/Washington

Day	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		Day
	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	
1	1135	2315	1118	....	1018	....	1110	0134	1213	0156	1445	0213	1
2	1200	....	1147	0054	1053	0044	1211	0227	1324	0234	1558	0244	2
3	1225	0012	1220	0155	1135	0145	1319	0315	1437	0309	1711	0316	3
4	1251	0109	1300	0257	1225	0245	1431	0358	1550	0341	1825	0352	4
5	1319	0208	1346	0359	1324	0343	1546	0437	1705	0413	1937	0434	5
6	1350	0309	1442	0501	1431	0436	1701	0512	1820	0446	2043	0521	6
7	1427	0411	1546	0558	1543	0524	1817	0545	1936	0521	2142	0615	7
8	1510	0515	1657	0650	1658	0606	1933	0618	2049	0600	2232	0715	8
9	1602	0619	1812	0735	1815	0644	2048	0652	2159	0645	2314	0818	9
10	1703	0719	1927	0815	1930	0718	2202	0729	2301	0736	2349	0921	10
11	1810	0814	2041	0850	2045	0751	2312	0811	2355	0832	....	1022	11
12	1921	0902	2154	0923	2159	0824	....	0857	....	0932	0019	1122	12
13	2034	0943	2305	0955	2311	0859	0016	0950	0040	1034	0046	1220	13
14	2146	1019	....	1028	....	0937	0112	1046	0117	1135	0110	1318	14
15	2257	1052	0015	1102	0020	1019	0201	1145	0149	1235	0135	1415	15
16	....	1123	0123	1140	0125	1106	0241	1245	0217	1333	0159	1513	16
17	0006	1154	0229	1223	0224	1158	0316	1345	0243	1430	0225	1612	17
18	0115	1226	0331	1310	0316	1254	0346	1443	0307	1527	0254	1713	18
19	0223	1301	0428	1403	0401	1353	0413	1541	0331	1625	0328	1815	19
20	0330	1340	0517	1500	0440	1452	0438	1638	0356	1723	0407	1916	20
21	0435	1425	0600	1559	0513	1551	0502	1735	0423	1823	0453	2014	21
22	0536	1514	0637	1659	0542	1650	0527	1833	0454	1924	0548	2108	22
23	0632	1609	0710	1758	0608	1747	0553	1931	0529	2025	0649	2156	23
24	0720	1708	0738	1856	0633	1844	0621	2031	0611	2125	0755	2237	24
25	0801	1808	0804	1953	0658	1941	0653	2131	0659	2221	0905	2313	25
26	0837	1908	0829	2050	0723	2039	0730	2231	0755	2312	1014	2346	26
27	0908	2007	0854	2147	0749	2137	0813	2330	0857	2357	1124	....	27
28	0936	2104	0919	2245	0818	2237	0903	....	1004	....	1234	0016	28
29	1002	2201	0947	2344	0852	2337	1001	0024	1113	0036	1344	0046	29
30	1027	2258	....	....	0931	....	1105	0113	1223	0110	1456	0117	30
31	1052	2356	....	....	1016	0036	....	....	1334	0142	....	....	31

Day	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		Day
	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	
1	1607	0150	1814	0249	1849	0445	1809	0537	1756	0722	1747	0814	1
2	1718	0228	1902	0348	1916	0546	1833	0635	1828	0822	1836	0911	2
3	1826	0312	1943	0450	1941	0646	1858	0732	1905	0921	1932	1004	3
4	1928	0402	2018	0554	2005	0744	1924	0830	1949	1020	2034	1051	4
5	2022	0459	2047	0656	2029	0842	1953	0929	2040	1115	2139	1132	5
6	2108	0601	2114	0757	2055	0939	2027	1028	2138	1206	2247	1209	6
7	2146	0704	2139	0856	2122	1037	2107	1127	2242	1251	2355	1241	7
8	2219	0807	2203	0953	2153	1136	2154	1225	2349	1331	....	1311	8
9	2247	0909	2227	1051	2230	1236	2248	1319	....	1407	0105	1340	9
10	2313	1009	2254	1148	2313	1335	2349	1409	0059	1439	0216	1409	10
11	2337	1107	2323	1247	....	1433	....	1454	0210	1510	0329	1441	11
12	....	1204	2356	1347	0003	1527	0056	1534	0323	1540	0444	1517	12
13	0001	1301	....	1447	0102	1617	0207	1609	0438	1612	0600	1600	13
14	0026	1400	0036	1548	0208	1701	0321	1642	0554	1647	0714	1650	14
15	0054	1459	0123	1646	0320	1740	0435	1713	0712	1727	0824	1749	15
16	0125	1601	0219	1739	0434	1814	0551	1745	0829	1814	0924	1853	16
17	0201	1702	0322	1827	0548	1847	0708	1819	0940	1909	1014	2000	17
18	0245	1802	0432	1909	0703	1918	0825	1857	1044	2009	1055	2106	18
19	0336	1859	0545	1945	0819	1951	0941	1939	1138	2114	1128	2211	19
20	0436	1950	0658	2019	0933	2025	1053	2029	1222	2219	1157	2312	20
21	0542	2035	0812	2050	1048	2104	1159	2124	1258	2322	1223	....	21
22	0652	2113	0925	2121	1159	2148	1256	2225	1328	....	1246	0011	22
23	0804	2148	1037	2153	1307	2238	1344	2328	1355	0024	1310	0109	23
24	0915	2219	1149	2228	1407	2334	1423	....	1419	0123	1334	0207	24
25	1026	2249	1300	2307	1459	....	1456	0030	1443	0221	1400	0305	25
26	1136	2319	1408	2352	1543	0034	1525	0132	1506	0318	1429	0404	26
27	1247	2352	1512	....	1620	0136	1550	0232	1531	0416	1503	0504	27
28	1357	....	1610	0043	1652	0238	1614	0331	1558	0515	1543	0604	28
29	1507	0027	1700	0140	1720	0339	1638	0428	1629	0614	1630	0703	29
30	1615	0108	1742	0241	1745	0438	1702	0526	1705	0714	1725	0759	30
31	1718	0155	1818	0343	....	....	1727	0624	....	....	1826	0849	31

Local Standard Time. Not adjusted for Daylight Savings Time.

Charleston/Savannah

Day	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		Day
	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	
1	1145	2334	1140	0005	1045	....	1145	0130	1243	0156	1459	0228	1
2	1213	....	1213	0100	1124	0045	1245	0224	1350	0238	1607	0303	2
3	1242	0027	1249	0157	1208	0143	1350	0314	1458	0317	1716	0340	3
4	1311	0121	1331	0257	1300	0242	1459	0400	1607	0353	1826	0420	4
5	1342	0216	1420	0357	1358	0339	1609	0442	1716	0430	1934	0505	5
6	1417	0313	1516	0457	1503	0434	1720	0522	1827	0507	2039	0555	6
7	1457	0413	1620	0555	1612	0524	1831	0559	1938	0546	2138	0651	7
8	1543	0514	1728	0649	1724	0610	1942	0637	2048	0630	2229	0750	8
9	1636	0616	1839	0737	1835	0652	2053	0716	2155	0718	2314	0851	9
10	1737	0716	1950	0821	1946	0730	2202	0757	2257	0810	2352	0951	10
11	1842	0811	2100	0901	2057	0808	2310	0842	2351	0907	....	1049	11
12	1951	0902	2208	0938	2206	0846	....	0931	....	1006	0025	1145	12
13	2059	0947	2315	1014	2314	0924	0012	1024	0038	1105	0055	1240	13
14	2207	1027	....	1050	....	1006	0108	1121	0118	1203	0123	1333	14
15	2314	1104	0021	1129	0020	1051	0158	1218	0153	1300	0151	1427	15
16	....	1139	0125	1210	0123	1140	0241	1315	0225	1355	0219	1521	16
17	0019	1214	0228	1255	0221	1233	0318	1412	0254	1448	0249	1617	17
18	0123	1250	0328	1345	0313	1328	0351	1507	0321	1542	0321	1714	18
19	0228	1329	0424	1438	0359	1425	0422	1601	0349	1635	0358	1813	19
20	0331	1411	0514	1533	0440	1521	0450	1655	0418	1730	0440	1912	20
21	0434	1458	0559	1630	0516	1617	0518	1748	0448	1827	0528	2010	21
22	0533	1549	0639	1727	0548	1712	0546	1842	0522	1924	0623	2104	22
23	0628	1644	0714	1823	0618	1806	0615	1937	0600	2023	0723	2154	23
24	0717	1740	0746	1917	0647	1859	0647	2033	0644	2121	0827	2238	24
25	0801	1838	0815	2011	0714	1953	0722	2131	0734	2217	0933	2318	25
26	0840	1935	0844	2104	0743	2047	0802	2229	0830	2309	1038	2355	26
27	0914	2030	0912	2158	0813	2142	0847	2325	0931	2356	1144	....	27
28	0945	2125	0941	2252	0845	2238	0938	....	1034	....	1249	0029	28
29	1014	2218	1011	2348	0922	2336	1035	0020	1140	0038	1355	0103	29
30	1042	2311	....	....	1003	....	1137	0110	1246	0117	1502	0138	30
31	1111	....	....	....	1051	0033	....	....	1352	0153	....	....	31

Day	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		Day
	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	
1	1609	0216	1810	0324	1854	0513	1824	0554	1823	0726	1822	0810	1
2	1717	0258	1900	0422	1925	0610	1851	0648	1859	0822	1912	0906	2
3	1823	0345	1943	0523	1954	0706	1919	0742	1939	0919	2008	0959	3
4	1924	0437	2021	0623	2021	0800	1949	0836	2025	1015	2107	1048	4
5	2019	0534	2054	0722	2049	0850	2022	0932	2116	1110	2210	1132	5
6	2106	0635	2124	0819	2118	0948	2059	1028	2213	1201	2313	1211	6
7	2147	0736	2152	0914	2149	1043	2141	1124	2314	1249	....	1247	7
8	2223	0836	2220	1008	2223	1138	2229	1220	....	1332	0018	1321	8
9	2255	0934	2248	1102	2302	1235	2323	1314	0018	1411	0123	1355	9
10	2324	1030	2318	1156	2347	1332	....	1405	0124	1447	0229	1429	10
11	2352	1124	2350	1251	....	1429	0023	1453	0231	1522	0337	1505	11
12	....	1218	....	1348	0039	1523	0128	1536	0339	1557	0447	1546	12
13	0020	1311	0027	1446	0137	1614	0235	1615	0449	1634	0559	1632	13
14	0048	1406	0109	1544	0241	1701	0344	1652	0600	1714	0711	1725	14
15	0119	1502	0158	1641	0349	1744	0453	1728	0714	1758	0818	1825	15
16	0154	1600	0254	1736	0459	1823	0604	1805	0826	1848	0919	1928	16
17	0233	1659	0356	1826	0609	1900	0716	1843	0936	1945	1011	2033	17
18	0319	1758	0503	1911	0719	1936	0828	1925	1039	2045	1055	2136	18
19	0411	1855	0612	1952	0829	2013	0940	2012	1134	2148	1132	2236	19
20	0510	1947	0721	2029	0940	2052	1050	2104	1220	2250	1204	2334	20
21	0615	2035	0830	2105	1049	2134	1154	2200	1259	2350	1233	....	21
22	0721	2117	0938	2140	1158	2221	1251	2300	1333	....	1301	0029	22
23	0829	2155	1046	2216	1302	2313	1340	....	1404	0048	1328	0123	23
24	0936	2231	1153	2255	1402	....	1423	0001	1432	0143	1356	0217	24
25	1042	2305	1300	2338	1455	0009	1459	0100	1459	0238	1425	0311	25
26	1148	2340	1406	....	1541	0108	1531	0158	1526	0331	1458	0407	26
27	1254	....	1508	0026	1621	0208	1600	0255	1554	0425	1535	0504	27
28	1401	0016	1605	0118	1656	0306	1628	0349	1625	0520	1617	0601	28
29	1507	0056	1656	0215	1728	0404	1655	0443	1659	0616	1706	0658	29
30	1612	0140	1741	0314	1756	0500	1723	0537	1738	0713	1801	0753	30
31	1714	0229	1820	0414	....	....	1752	0631	....	....	1900	0844	31

Local Standard Time. Not adjusted for Daylight Savings Time.

Galveston, TX

Day	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		Day
	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	
1	1141	2335	1142	0002	1049	....	1152	0121	1248	0149	1458	0226	1
2	1211	....	1216	0056	1129	0038	1252	0215	1354	0232	1604	0303	2
3	1241	0026	1254	0152	1215	0135	1356	0306	1500	0312	1711	0342	3
4	1312	0119	1337	0250	1307	0234	1504	0354	1607	0351	1819	0424	4
5	1344	0213	1427	0349	1406	0331	1612	0437	1715	0429	1927	0511	5
6	1421	0308	1524	0449	1510	0426	1721	0518	1823	0508	2031	0602	6
7	1502	0406	1627	0547	1618	0517	1830	0558	1933	0549	2129	0658	7
8	1549	0507	1735	0641	1728	0604	1939	0637	2041	0635	2221	0758	8
9	1643	0608	1844	0731	1838	0647	2048	0718	2147	0724	2306	0857	9
10	1744	0707	1953	0816	1947	0728	2156	0801	2248	0818	2345	0956	10
11	1849	0803	2101	0857	2055	0807	2302	0848	2342	0915	....	1053	11
12	1956	0855	2207	0936	2202	0847	....	0938	....	1013	0020	1148	12
13	2103	0941	2312	1014	2308	0928	0004	1032	0029	1111	0051	1241	13
14	2209	1023	....	1052	....	1011	0100	1128	0111	1208	0121	1333	14
15	2314	1101	0016	1132	0013	1057	0149	1225	0147	1303	0150	1425	15
16	....	1138	0119	1215	0115	1147	0233	1321	0220	1356	0219	1518	16
17	0017	1215	0221	1302	0212	1240	0311	1416	0250	1449	0251	1612	17
18	0120	1253	0320	1352	0304	1335	0346	1510	0319	1540	0325	1708	18
19	0223	1333	0415	1445	0351	1431	0417	1602	0348	1633	0403	1806	19
20	0325	1416	0506	1540	0432	1527	0447	1654	0419	1726	0446	1904	20
21	0426	1504	0551	1636	0510	1621	0517	1746	0451	1821	0535	2001	21
22	0525	1556	0632	1732	0543	1714	0546	1839	0526	1918	0630	2056	22
23	0619	1651	0708	1826	0614	1807	0617	1932	0606	2015	0730	2146	23
24	0709	1747	0741	1919	0644	1859	0650	2027	0651	2112	0833	2232	24
25	0753	1843	0812	2012	0714	1951	0727	2124	0742	2208	0938	2313	25
26	0833	1939	0842	2103	0743	2043	0807	2221	0837	2300	1042	2351	26
27	0908	2033	0911	2155	0815	2137	0854	2317	0938	2348	1145	....	27
28	0941	2126	0942	2248	0849	2232	0946	....	1040	....	1249	0027	28
29	1011	2218	1014	2342	0927	2328	1043	0011	1144	0032	1353	0103	29
30	1041	2310	....	....	1009	....	1144	0102	1248	0112	1458	0140	30
31	1110	....	....	....	1058	0025	....	....	1353	0149	....	....	31

Day	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		Day
	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	
1	1604	0219	1801	0331	1848	0517	1822	0555	1827	0721	1829	0802	1
2	1710	0303	1851	0430	1921	0613	1851	0647	1904	0816	1920	0857	2
3	1814	0351	1935	0529	1951	0707	1921	0739	1945	0911	2015	0950	3
4	1915	0444	2014	0628	2020	0800	1952	0832	2032	1007	2114	1039	4
5	2010	0542	2049	0726	2049	0852	2026	0926	2124	1101	2215	1124	5
6	2058	0642	2120	0821	2119	0945	2105	1021	2221	1152	2318	1205	6
7	2140	0742	2150	0915	2152	1038	2148	1116	2321	1240	....	1242	7
8	2217	0841	2219	1007	2228	1132	2237	1211	....	1324	0020	1318	8
9	2250	0937	2249	1100	2308	1227	2331	1305	0023	1405	0123	1353	9
10	2321	1031	2320	1152	2354	1324	....	1357	0127	1443	0228	1429	10
11	2350	1124	2354	1246	....	1420	0030	1445	0233	1520	0334	1508	11
12	....	1216	....	1341	0046	1514	0134	1529	0339	1557	0443	1550	12
13	0019	1308	0032	1438	0145	1606	0239	1610	0447	1635	0553	1639	13
14	0050	1402	0116	1536	0248	1654	0346	1649	0556	1717	0703	1733	14
15	0122	1457	0205	1633	0354	1738	0454	1727	0708	1804	0809	1833	15
16	0158	1553	0302	1727	0502	1819	0603	1806	0819	1855	0910	1936	16
17	0239	1651	0404	1818	0611	1857	0713	1846	0927	1953	1002	2040	17
18	0326	1750	0509	1904	0719	1935	0823	1930	1030	2053	1047	2141	18
19	0419	1846	0617	1947	0827	2014	0934	2018	1125	2155	1126	2240	19
20	0518	1939	0724	2026	0935	2055	1042	2111	1212	2256	1159	2336	20
21	0621	2027	0831	2103	1043	2140	1145	2208	1252	2355	1230	....	21
22	0727	2111	0937	2140	1150	2228	1242	2308	1328	....	1259	0029	22
23	0833	2151	1043	2219	1254	2321	1332	....	1359	0051	1328	0122	23
24	0938	2228	1148	2259	1353	....	1415	0007	1429	0145	1357	0214	24
25	1043	2304	1254	2344	1446	0017	1452	0106	1457	0237	1428	0307	25
26	1147	2341	1358	....	1533	0115	1526	0202	1526	0329	1502	0401	26
27	1251	....	1459	0033	1614	0214	1557	0257	1556	0422	1541	0457	27
28	1355	0019	1556	0126	1650	0311	1626	0350	1628	0515	1624	0553	28
29	1500	0100	1648	0222	1723	0407	1654	0442	1704	0610	1714	0650	29
30	1604	0146	1733	0321	1753	0502	1723	0535	1744	0705	1808	0744	30
31	1705	0236	1813	0420	....	....	1754	0627	....	....	1907	0836	31

Local Standard Time. Not adjusted for Daylight Savings Time.

Panama Canal East

Day	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		Day
	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	
1	1128	2340	1157	....	1116	....	1232	0036	1316	0113	1451	0223	1
2	1206	....	1238	0033	1202	0003	1329	0132	1413	0204	1547	0310	2
3	1243	0024	1323	0121	1252	0055	1428	0227	1509	0254	1644	0359	3
4	1322	0108	1411	0213	1346	0150	1527	0321	1606	0342	1744	0450	4
5	1402	0154	1505	0307	1444	0247	1626	0413	1703	0430	1844	0544	5
6	1446	0242	1603	0405	1544	0344	1725	0504	1801	0520	1945	0641	6
7	1534	0333	1703	0504	1646	0441	1823	0554	1901	0611	2044	0739	7
8	1626	0427	1805	0602	1747	0536	1922	0644	2002	0704	2139	0837	8
9	1722	0524	1907	0659	1846	0629	2021	0735	2103	0800	2229	0933	9
10	1822	0623	2007	0753	1945	0720	2121	0827	2202	0858	2315	1026	10
11	1923	0722	2104	0844	2043	0809	2220	0921	2258	0955	2357	1116	11
12	2024	0819	2201	0933	2140	0859	2319	1016	2349	1051	....	1203	12
13	2122	0913	2256	1020	2238	0949	....	1112	....	1144	0037	1248	13
14	2219	1004	2351	1108	2335	1040	0015	1207	0037	1235	0114	1331	14
15	2314	1052	....	1156	....	1132	0107	1300	0120	1322	0151	1415	15
16	....	1138	0046	1246	0032	1226	0156	1351	0201	1408	0229	1500	16
17	0008	1224	0142	1338	0127	1320	0240	1440	0239	1452	0308	1546	17
18	0101	1311	0237	1430	0221	1413	0322	1526	0316	1536	0349	1635	18
19	0155	1359	0331	1524	0311	1505	0401	1611	0353	1620	0434	1726	19
20	0250	1449	0423	1617	0357	1555	0439	1655	0431	1705	0523	1820	20
21	0346	1541	0513	1708	0441	1642	0516	1738	0511	1752	0615	1916	21
22	0441	1635	0559	1757	0522	1728	0554	1823	0554	1842	0711	2011	22
23	0536	1729	0642	1845	0601	1813	0632	1909	0640	1934	0808	2106	23
24	0628	1822	0722	1930	0639	1856	0713	1956	0729	2028	0906	2158	24
25	0717	1913	0801	2015	0716	1940	0756	2046	0822	2122	1002	2248	25
26	0802	2002	0839	2058	0754	2025	0843	2138	0917	2217	1058	2335	26
27	0845	2049	0916	2142	0833	2111	0933	2232	1014	2310	1152	....	27
28	0924	2134	0954	2227	0914	2159	1026	2326	1111	....	1246	0021	28
29	1003	2218	1034	2314	0958	2249	1122	....	1207	0001	1339	0107	29
30	1040	2302	....	....	1045	2342	1219	0020	1302	0049	1435	0153	30
31	1118	2347	....	....	1137	....	....	....	1356	0137	....	....	31

Day	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		Day
	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	Rise h m	Set h m	
1	1532	0242	1716	0412	1824	0541	1820	0557	1854	0653	1910	0717	1
2	1630	0333	1809	0509	1905	0629	1857	0641	1937	0740	2002	0810	2
3	1730	0428	1859	0604	1943	0715	1935	0725	2024	0830	2056	0903	3
4	1829	0525	1945	0657	2021	0800	2014	0809	2114	0921	2151	0955	4
5	1926	0623	2028	0747	2058	0844	2055	0856	2206	1014	2246	1046	5
6	2019	0720	2107	0835	2136	0928	2140	0944	2300	1107	2339	1134	6
7	2107	0814	2145	0920	2216	1013	2227	1034	2355	1158	....	1221	7
8	2151	0906	2223	1004	2258	1100	2318	1126	....	1249	0033	1306	8
9	2232	0955	2300	1048	2344	1149	....	1219	0051	1338	0126	1351	9
10	2311	1041	2339	1132	....	1240	0012	1312	0146	1425	0220	1438	10
11	2349	1126	....	1218	0034	1334	0108	1405	0241	1512	0315	1526	11
12	....	1210	0020	1307	0127	1429	0205	1457	0337	1600	0414	1618	12
13	0026	1254	0105	1357	0224	1524	0303	1547	0433	1649	0515	1714	13
14	0104	1339	0153	1451	0323	1618	0400	1636	0532	1741	0618	1814	14
15	0144	1426	0246	1547	0422	1710	0457	1725	0634	1836	0722	1915	15
16	0227	1516	0342	1643	0520	1801	0555	1814	0737	1934	0823	2016	16
17	0314	1609	0441	1739	0618	1850	0653	1905	0840	2035	0920	2115	17
18	0405	1704	0540	1833	0716	1939	0754	1958	0942	2135	1011	2209	18
19	0459	1801	0639	1924	0813	2028	0855	2054	1040	2233	1057	2300	19
20	0557	1857	0737	2013	0911	2119	0957	2152	1132	2328	1140	2347	20
21	0656	1951	0834	2101	1010	2211	1058	2250	1220	....	1219	....	21
22	0755	2043	0929	2148	1109	2306	1156	2348	1303	0019	1256	0033	22
23	0852	2132	1025	2236	1209	....	1249	....	1343	0107	1333	0117	23
24	0948	2219	1121	2326	1306	0002	1338	0043	1421	0153	1411	0200	24
25	1042	2305	1218	....	1401	0058	1423	0135	1458	0237	1450	0245	25
26	1136	2352	1316	0017	1452	0154	1505	0224	1535	0321	1531	0331	26
27	1230	....	1414	0111	1540	0247	1543	0311	1613	0404	1616	0419	27
28	1326	0039	1510	0207	1623	0338	1621	0355	1653	0450	1704	0510	28
29	1423	0128	1604	0303	1704	0426	1658	0439	1735	0537	1756	0603	29
30	1521	0221	1655	0358	1743	0512	1735	0523	1821	0626	1850	0657	30
31	1619	0316	1741	0451	....	....	1814	0607	....	....	1946	0751	31

Local Standard Time. Not adjusted for Daylight Savings Time.

TABLE 7.—CONVERSION OF FEET TO CENTIMETERS

Feet	Tenths of a Foot										Feet
	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	
0	0	3	6	9	12	15	18	21	24	27	0
1	30	34	37	40	43	46	49	52	55	58	1
2	61	64	67	70	73	76	79	82	85	88	2
3	91	94	98	101	104	107	110	113	116	119	3
4	122	125	128	131	134	137	140	143	146	149	4
5	152	155	158	162	165	168	171	174	177	180	5
6	183	186	189	192	195	198	201	204	207	210	6
7	213	216	219	223	226	229	232	235	238	241	7
8	244	247	250	253	256	259	262	265	268	271	8
9	274	277	280	283	287	290	293	296	299	302	9
10	305	308	311	314	317	320	323	326	329	332	10
11	335	338	341	344	347	351	354	357	360	363	11
12	366	369	372	375	378	381	384	387	390	393	12
13	396	399	402	405	408	411	415	418	421	424	13
14	427	430	433	436	439	442	445	448	451	454	14
15	457	460	463	466	469	472	475	479	482	485	15
16	488	491	494	497	500	503	506	509	512	515	16
17	518	521	524	527	530	533	536	539	543	546	17
18	549	552	555	558	561	564	567	570	573	576	18
19	579	582	585	588	591	594	597	600	604	607	19
20	610	613	616	619	622	625	628	631	634	637	20
21	640	643	646	649	652	655	658	661	664	668	21
22	671	674	677	680	683	686	689	692	695	698	22
23	701	704	707	710	713	716	719	722	725	728	23
24	732	735	738	741	744	747	750	753	756	759	24
25	762	765	768	771	774	777	780	783	786	789	25
26	792	796	799	802	805	808	811	814	817	820	26
27	823	826	829	832	835	838	841	844	847	850	27
28	853	856	860	863	866	869	872	875	878	881	28
29	884	887	890	893	896	899	902	905	908	911	29
30	914	917	920	924	927	930	933	936	939	942	30
31	945	948	951	954	957	960	963	966	969	972	31
32	975	978	981	985	988	991	994	997	1000	1003	32
33	1006	1009	1012	1015	1018	1021	1024	1027	1030	1033	33
34	1036	1039	1042	1045	1049	1052	1055	1058	1061	1064	34
35	1067	1070	1073	1076	1079	1082	1085	1088	1091	1094	35
36	1097	1100	1103	1106	1109	1113	1116	1119	1122	1125	36
37	1128	1131	1134	1137	1140	1143	1146	1149	1152	1155	37
38	1158	1161	1164	1167	1170	1173	1177	1180	1183	1186	38
39	1189	1192	1195	1198	1201	1204	1207	1210	1213	1216	39
40	1219	1222	1225	1228	1231	1234	1237	1241	1244	1247	40
41	1250	1253	1256	1259	1262	1265	1268	1271	1274	1277	41
42	1280	1283	1286	1289	1292	1295	1298	1301	1305	1308	42
43	1311	1314	1317	1320	1323	1326	1329	1332	1335	1338	43
44	1341	1344	1347	1350	1353	1356	1359	1362	1366	1369	44
45	1372	1375	1378	1381	1384	1387	1390	1393	1396	1399	45
46	1402	1405	1408	1411	1414	1417	1420	1423	1426	1430	46
47	1433	1436	1439	1442	1445	1448	1451	1454	1457	1460	47
48	1463	1466	1469	1472	1475	1478	1481	1484	1487	1490	48
49	1494	1497	1500	1503	1506	1509	1512	1515	1518	1521	49
50	1524	1527	1530	1533	1536	1539	1542	1545	1548	1551	50

Feet to Meters = Centimeters divided by 100 (from above table)

Example: 09.40 feet = (287 centimeters) / (100) = 02.87 meters.

1 Meter = 100 centimeters

1 Meter = 3.2808399 feet

1 Foot = 0.30480061 meters

1 Foot = 30.480061 centimeters

TABLE 8.—TIDE PREDICTION ACCURACY

EXPLANATION OF TABLE

The accuracy of National Ocean Service tide predictions is determined by comparing predicted and observed high and low waters at all stations for which data exists, primarily the U.S. and its territories. Each water-level station is unique; there is no single standard of accuracy when comparing astronomic tide predictions with observed water levels. Water-level station locations are examined on an individual basis to determine if the predictions are adequate. Comparisons are based on 1989 data except for those locations where the stations were not in operation or the data acquired were unacceptable. If a station was not in operation in 1989, the last good year of data was used. Comparisons are made by subtracting the observed times and heights of the high and low waters from the predicted tides to compute a difference.

Table Legend

Station ID—Each water-level station in the United States and dependent territories has a unique seven digit identification number (ID). The ID is unrelated to the four digit station number used in the published prediction tables.

90% Distribution Level—90% of the absolute values of the differences are less than or equal to the values in these columns.

Standard Deviation of Differences—Standard deviation of all the differences.

Average Difference—Average of the signed sum of all the differences.

Notes

Albany—This station, located on the Hudson River, experiences a significant change in river level and corresponding times and heights of high and low waters throughout the year.

Baltimore—Winds greatly affect the times and heights of the high and low tides, owing to the large shallow bay and small tidal range.

Gulf of Mexico locations—Water level is difficult to predict because the Gulf, being large, relatively shallow, and with a small tidal range, is greatly influenced by weather conditions.

TABLE 8.—TIDE PREDICTION ACCURACY

Station ID	Station Name	Year	90% Distribution Level				Standard Deviation of Differences				Average Differences			
			Time Differences (Hours)	High Water (Feet)	Low Water (Hours)	Height Differences (Feet)	Times (Hours)	High Water (Feet)	Low Water (Hours)	Heights (Feet)	Times (Hours)	High Water (Feet)	Low Water (Hours)	Heights (Feet)
841-0140	Eastport, ME	1998	0.2	0.7	0.2	0.6	0.09	0.11	0.41	0.40	-0.07	-0.10	-0.08	-0.10
841-8150	Portland, ME	1998	0.3	0.6	0.2	0.6	0.14	0.13	0.40	0.39	-0.10	-0.07	-0.11	0.06
844-3970	Boston, MA	1998	0.3	0.8	0.3	0.7	0.14	0.14	0.49	0.48	-0.10	-0.10	-0.10	-0.09
844-7930	Woods Hole, MA	2003	0.5	0.7	>1.0	0.7	0.48	0.77	0.43	0.40	-0.03	0.01	-0.02	-0.01
844-9130	Nantucket, Ma	2003	0.3	0.6	0.3	0.6	0.23	0.21	0.40	0.39	-0.03	0.03	-0.03	0.03
845-2660	Newport, RI	1997	0.3	0.7	0.6	0.7	0.19	0.14	0.41	0.40	-0.06	-0.04	-0.07	-0.05
846-1490	New London, CT	1998	0.4	0.7	0.3	0.7	0.25	0.22	0.47	0.47	-0.11	-0.08	-0.10	-0.09
846-7150	Bridgeport, CT	1998	0.3	0.8	0.3	0.8	0.13	0.13	0.55	0.56	-0.12	-0.15	-0.11	-0.16
841-6945	Kings Point, NY	1999	0.9	0.8	>1.0	0.8	0.59	0.54	0.55	0.56	-0.12	-0.15	-0.11	-0.16
851-8750	The Battery, NY	2003	0.6	0.9	0.5	0.9	0.37	0.31	0.59	0.60	-0.07	-0.06	0.03	-0.02
853-1680	Sandy Hook, NJ	2002	0.4	0.8	0.4	0.8	0.25	0.25	0.51	0.54	-0.13	-0.12	0.19	0.21
853-4720	Atlantic City, NJ	2000	0.3	0.9	0.4	0.9	0.24	0.24	0.57	0.57	-0.02	-0.01	0.02	-0.02
854-5530	Philadelphia, PA	1989	0.5	1.0	0.6	1.0	0.30	0.36	0.72	0.65	0.14	0.11	-0.12	0.28
855-1910	Reedy Point, DE	2002	0.5	0.9	0.7	0.9	0.23	0.31	0.55	0.56	-0.18	-0.35	0.09	-0.02
855-7380	Breakwater Harbor, DE	1998	0.3	0.9	0.3	0.9	0.18	0.18	0.62	0.68	-0.06	-0.03	-0.03	-0.01
857-4680	Baltimore, MD	1998	0.8	1.0	1.0	1.0	1.38	1.43	0.64	0.62	-0.21	-0.09	-0.21	-0.11
859-4900	Washington, DC	1998	0.5	0.8	0.8	1.0	0.33	0.48	0.73	0.83	-0.05	-0.19	-0.03	-0.23
863-8863	Chesapeake Bay Bri Tunnel	2002	0.3	0.8	0.4	0.8	0.25	0.27	0.50	0.52	-0.06	-0.08	-0.07	-0.08
863-8610	Hampton Roads, VA	1995	0.4	0.8	0.4	0.8	0.27	0.25	0.51	0.56	0.07	0.05	0.03	-0.01
865-8120	Wilmington, NC	2003	0.5	0.6	0.5	0.8	0.34	0.29	0.38	0.46	-0.01	-0.08	0.11	0.16
8661070	Myrtle Beach, SC	2003	0.4	0.8	0.4	0.8	0.28	0.29	0.48	0.50	0.00	0.01	0.00	0.00
866-5530	Charleston, SC	2000	0.4	0.6	0.4	0.7	0.19	0.20	0.42	0.47	0.14	-0.10	0.05	-0.02
867-0870	Savannah R. Ent., GA	1995	0.3	0.7	0.3	0.9	0.21	0.19	0.47	0.58	-0.01	-0.07	0.05	0.03
872-0030	Fernandina Beach, FL	1995	0.2	0.9	0.3	0.9	0.15	0.19	0.48	0.56	-0.02	0.06	0.33	0.30
872-0218	Mayport, FL	2003	0.2	0.6	0.3	0.8	0.14	0.21	0.41	0.51	-0.04	0.01	-0.02	0.01
872-3178	Miami, Government Cut, FL	1985	0.3	0.4	0.3	0.4	0.18	0.17	0.25	0.24	-0.07	0.01	-0.02	-0.01
872-4580	Key West, FL	2000	0.5	0.3	0.4	0.3	0.29	0.25	0.19	0.20	-0.18	-0.06	-0.15	-0.10
872-6520	St. Petersburg, FL	2003	0.7	0.6	0.7	0.5	0.56	0.44	0.38	0.34	0.07	0.00	0.01	0.2
872-9840	Pensacola, FL	1995	>1.0	0.6	>1.0	0.9	2.61	2.72	0.48	0.41	0.04	0.10	-0.04	0.07
873-7048	Mobile, AL	1984	>1.0	0.8	>1.0	0.7	2.56	2.49	0.48	0.45	0.05	-0.09	-0.05	0.04
876-1724	Grand Isle, LA	2003	>1.0	0.5	>1.0	0.5	1.21	1.22	0.30	0.30	-0.24	-0.33	0.00	0.00
877-1450	Galveston, TX	1995	>1.0	0.7	>1.0	0.8	1.29	1.25	0.50	0.54	-0.15	-0.12	-0.03	0.00

TABLE 9.— LOWEST/ HIGHEST ASTRONOMICAL TIDE AND OTHER TIDAL DATUMS

EXPLANATION OF TABLE

Lowest Astronomical Tide (LAT) and Highest Astronomical Tide (HAT) are the lowest and highest predicted values for the tides at a given location over a 19 year period. These values were calculated by generating tide predictions for the time period of the latest National Tidal Datum Epoch (1983-2001) using the latest set of tidal harmonic constituents. The highest and lowest values predicted were recorded to the nearest 0.1 foot. It is important to note that the LAT and HAT values are derived solely from predicted tides based on astronomical forces. Observed water levels can be above the HAT level or below the LAT level due to storms, winds, or other meteorological effects which are not accounted for in the tide predictions.

Table Legend

Station - Each water level station in the United States and its territories has a unique seven digit identification number (ID). The ID is unrelated to the four digit indexing number used in the published prediction tables.

LAT - Lowest Astronomical Tide - The lowest predicted tidal level

MLLW - Mean Lower Low Water

MLW - Mean Low Water

MHW - Mean High Water

MHHW - Mean Higher High Water

HAT - Highest Astronomical Tide - The highest predicted tidal level

Notes

All elevations are provided in feet relative to Mean Lower Low Water (MLLW), the reference datum for tide predictions and soundings on NOAA nautical charts. The other tidal datums (Mean Low Water, Mean High Water, and Mean Higher High Water) in this table are included to provide additional information.

**TABLE 9.— LOWEST/ HIGHEST ASTRONOMICAL TIDE AND
OTHER TIDAL DATUMS
RELATIVE TO MLLW (feet)**

Station	Name	LAT	MLW	MHW	MHHW	HAT
8410140	Eastport, Maine	-3.4	0.4	18.8	19.3	22.9
8413320	Bar Harbor, Maine	-2.2	0.4	10.9	11.4	13.7
8418150	Portland, Maine	-2.0	0.3	9.5	9.9	11.9
8443970	Boston, Massachusetts	-2.2	0.3	9.8	10.3	12.4
8449130	Nantucket Island, Massachusetts	-0.8	0.2	3.2	3.6	4.5
8447930	Woods Hole, Massachusetts	-0.7	0.1	1.9	2.2	3.2
8452660	Newport, Rhode Island	-1.0	0.1	3.6	3.9	5.2
8510560	Montauk, Fort Pond, New York	-0.9	0.2	2.2	2.5	3.5
8461490	New London, Connecticut	-0.8	0.2	2.8	3.1	3.9
8467150	Bridgeport, Connecticut	-1.4	0.2	7.0	7.3	8.8
8516945	Kings Point, New York	-1.5	0.3	7.4	7.8	9.7
8518750	New York (The Battery), New York	-1.5	0.2	4.7	5.1	6.4
8519483	Bayonne Bridge, New York	-1.6	0.2	5.2	5.5	6.9
8518995	Albany, New York	-1.1	0.2	5.1	5.5	6.3
8531680	Sandy Hook, New Jersey	-1.4	0.2	4.9	5.2	6.6
8534720	Atlantic City, New Jersey	-1.3	0.2	4.2	4.6	5.8
8557380	Breakwater Harbor, Delaware	-1.1	0.2	4.2	4.7	5.8
8551910	Reedy Point, Delaware	-1.0	0.2	5.5	5.8	6.9
8545530	Philadelphia, Pennsylvania	-0.6	0.2	6.4	6.8	8.0
8570280	Ocean City, Maryland	-1.2	0.2	3.5	3.9	5.1
8574680	Baltimore, Maryland	-0.6	0.2	1.4	1.7	2.3
8594900	Washington, DC	-0.6	0.2	2.9	3.2	3.8
8638863	Chesapeake Bay Bridge Tunnel, Virginia	-0.9	0.1	2.7	2.9	4.0
8638610	Hampton Roads, Sewells Point, Virginia	-0.7	0.1	2.6	2.8	3.6
8651370	Duck Pier, North Carolina	-1.0	0.1	3.4	3.7	4.9
8652587	Oregon Inlet Marina, North Carolina	-0.2	0.1	1.0	1.2	1.7
8654400	Cape Hatteras, North Carolina	-1.0	0.1	3.1	3.5	4.7
8658120	Wilmington, North Carolina	-0.4	0.2	4.4	4.7	5.4
8661070	Myrtle Beach, South Carolina	-1.5	0.2	5.2	5.6	7.2
8665530	Charleston, South Carolina	-1.5	0.2	5.4	5.8	7.3
8670870	Savannah River Entrance, Georgia	-1.7	0.2	7.1	7.5	9.2
8670681	Savannah, Georgia	-1.9	0.3	8.1	8.6	10.1
8720030	Fernandina Beach, Florida	-1.7	0.2	6.2	6.6	8.2
8720218	Mayport, Florida	-1.6	0.2	4.7	5.0	6.4
8721604	Port Canaveral, Florida	-1.2	0.2	3.6	4.0	5.4
8723178	Miami, Government Cut, Florida	-0.9	0.1	2.5	2.5	3.6
8723970	Vaca Key, Florida	-0.5	0.2	0.9	1.0	1.7
8724580	Key West, Florida	-0.8	0.2	1.5	1.8	2.6
8725110	Naples, Florida	-1.4	0.6	2.6	2.9	3.8
8726520	St. Petersburg, Florida	-1.1	0.4	2.0	2.3	3.1
8727520	Cedar Key, Florida	-1.4	0.6	3.5	3.8	4.8
8728130	St. Marks River Entrance, Florida	-1.6	0.6	3.3	3.5	4.5
8728690	Apalachicola, Florida	-1.0	0.4	1.5	1.6	2.1
8729840	Pensacola, Florida	-1.2	0.0	1.2	1.3	2.2
8735180	Dauphin Island, Alabama	-1.0	0.0	1.2	1.2	2.0
8737048	Mobile, Alabama	-1.2	0.1	1.5	1.6	2.4
8760551	South Pass, Louisiana	-1.2	0.0	1.2	1.2	2.2
8761724	Grand Isle, Louisiana	-0.9	0.0	1.1	1.1	1.8
8771450	Galveston, Texas	-1.2	0.3	1.3	1.4	2.0
8773701	Port O'Connor, Texas	-0.9	0.0	0.8	0.8	1.7
8779750	Padre Island, Texas	-1.5	0.2	1.4	1.5	2.4
2695540	Bermuda Esso Pier, Bermuda	-0.8	0.1	2.6	2.9	3.9
9710441	Settlement Point, Grand Bahamas Island	-0.8	0.1	2.8	3.1	4.1
9759110	Magueyes Island, Puerto Rico	-0.5	0.0	0.7	0.7	1.1
9755371	San Juan, Puerto Rico	-0.6	0.2	1.3	1.6	2.2
9751639	Charlotte Amalie, St. Thomas Island	-0.5	0.0	0.7	0.8	1.2
9751401	Lime Tree Bay, St. Croix Island	-0.5	0.0	0.7	0.7	1.1

PUBLICATIONS RELATING TO TIDES AND TIDAL CURRENTS

TIDE TABLES

Advance information relative to the rise and fall of the tide is given in annual tide tables. These tables include the predicted times and heights of high and low waters for every day in the year for a number of reference stations and differences for obtaining similar predictions for numerous other places.

Tide Tables, Central and Western Pacific Ocean and Indian Ocean.

Tide Tables, East Coast of North and South America (Including Greenland).

Tide Tables, Europe and West Coast of Africa (Including the Mediterranean Sea).

Tide Tables, West Coast of North and South America (Including the Hawaiian Islands).

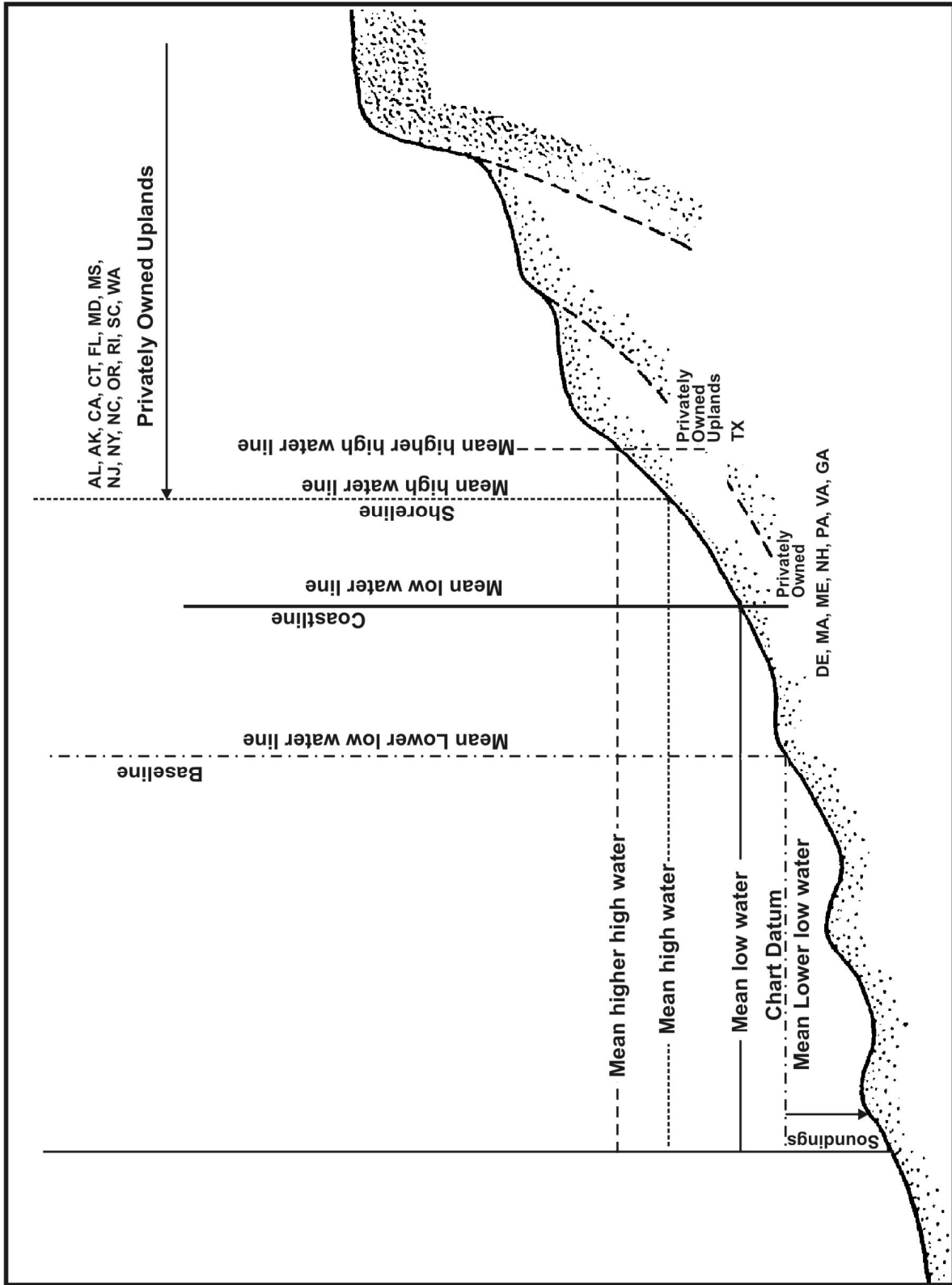
TIDAL CURRENT TABLES

Accompanying the rise and fall of the tide is a periodic horizontal flow of the water known as the tidal current. Advance information relative to these currents is made available in annual tidal current tables which include daily predictions of the times of slack water and the times and velocities of strength of flood and ebb currents for a number of waterways together with differences for obtaining predictions for numerous other places.

Tidal Current Tables, Atlantic Coast of North America.

Tidal Current Tables, Pacific Coast of North America and Asia.

OFFICIAL U.S. DATUMS



GLOSSARY OF TERMS

- ANNUAL INEQUALITY**—Seasonal variation in the water level or current, more or less periodic, due chiefly to meteorological causes.
- APOGEAN TIDES OR TIDAL CURRENTS**—Tides of decreased range or currents of decreased speed occurring monthly as the result of the Moon being in apogee (farthest from the Earth).
- AUTOMATIC TIDE GAGE**—An instrument that automatically registers the rise and fall of the tide. In some instruments, the registration is accomplished by recording the heights at regular intervals in digital format, in others by a continuous graph in which the height versus corresponding time of the tide is recorded.
- BENCH MARK (BM)**—A fixed physical object or marks used as reference for a vertical datum. A *tidal bench mark* is one near a tide station to which the tide staff and tidal datums are referred. A *Geodetic bench mark* identifies a surveyed point in the National Geodetic Vertical Network.
- CHART DATUM**—The tidal datum to which soundings on a chart are referred. It is usually taken to correspond to low water elevation of the tide, and its depression below mean sea level is represented by the symbol Zo.
- CURRENT**—Generally, a horizontal movement of water. Currents may be classified as *tidal* and *nontidal*. Tidal currents are caused by gravitational interactions between the Sun, Moon, and Earth and are a part of the same general movement of the sea that is manifested in the vertical rise and fall, called *tide*. Nontidal currents include the permanent currents in the general circulatory systems of the sea as well as temporary currents arising from more pronounced meteorological variability.
- CURRENT DIFFERENCE**—Difference between the time of slack water (or minimum current) or strength of current in any locality and the time of the corresponding phase of the tidal current at a reference station, for which predictions are given in the *Tidal Current Tables*.
- CURRENT ELLIPSE**—A graphic representation of a rotary current in which the velocity of the current at different hours of the tidal cycle is represented by radius vectors and vectorial angles. A line joining the extremities of the radius vectors will form a curve roughly approximating an ellipse. The cycle is completed in one-half tidal day or in a whole tidal day according to whether the tidal current is of the semidiurnal or the diurnal type. A current of the mixed type will give a curve of two unequal loops each tidal day.
- CURRENT METER**—An instrument for measuring the speed and direction or just the speed of a current. The measurements are usually Eulerian since the meter is most often fixed or moored at a specific location.
- DATUM (vertical)**—For marine applications, a base elevation used as a reference from which to reckon heights or depths. It is called a *tidal datum* when defined by a certain phase of the tide. Tidal datums are local datums and should not be extended into areas which have differing topographic features without substantiating measurements. In order that they may be recovered when needed, such datums are referenced to fixed points known as *bench marks*.
- DAYLIGHT SAVING TIME**—A time used during the summer in some localities in which clocks are advanced 1 hour from the usual standard time.
- DIURNAL**—Having a period or cycle of approximately 1 tidal day. Thus, the tide is said to be diurnal when only one high water and one low water occur during a tidal day, and the tidal current is said to be diurnal when there is a single flood and single ebb period in the tidal day. A rotary current is diurnal if it changes its direction through all points of the compass once each tidal day.
- DIURNAL INEQUALITY**—The difference in height of the two high waters or of the two low waters of each day; also the difference in speed between the two flood tidal currents or the two ebb tidal currents of each day. The difference changes with the declination of the Moon and to a lesser extent with the declination of the Sun. In general, the inequality tends to increase with an increasing declination, either north or south, and to diminish as the Moon approaches the Equator. *Mean diurnal high water inequality* (DHQ) is one-half the average difference between the two high waters of each day observed over a specific 19-year Metonic cycle (the National Tidal Datum Epoch). It is obtained by subtracting the mean of all high waters from the mean of the higher high waters. *Mean diurnal low water inequality* (DLQ) is one-half the average difference between the two low waters of each day observed over a specific 19-year Metonic cycle (the National Tidal Datum Epoch). It is obtained by subtracting the mean of the lower low waters from the mean of all low waters. *Tropic high water inequality* (HWQ) is the average difference between the two high waters of the day at the times of the tropic tides. *Tropic low water inequality* (LWQ) is the average difference between the two low waters of the day at the times of the tropic tides. Mean and tropic inequalities as

GLOSSARY OF TERMS

defined above are applicable only when the type of tide is either semidiurnal or mixed. Diurnal inequality is sometimes called *declinational inequality*.

DOUBLE EBB—An ebb tidal current where, after ebb begins, the speed increases to a maximum called *first ebb*; it then decreases, reaching a *minimum ebb* near the middle of the ebb period (and at some places it may actually run in a flood direction for a short period); it then again ebbs to a maximum speed called second ebb after which it decreases to slack water.

DOUBLE FLOOD—A flood tidal current where, after flood begins, the speed increases to a maximum called first flood; it then decreases, reaching a minimum flood near the middle of the flood period (and at some places it may actually run in an ebb direction for a short period); it then again floods to a maximum speed called second flood after which it decreases to slack water.

DOUBLE TIDE—A double-headed tide, that is, a high water consisting of two maxima of nearly the same height separated by a relatively small depression, or a low water consisting of two minima separated by a relatively small elevation. Sometimes, it is called an agger.

DURATION OF FLOOD AND DURATION OF EBB—Duration of flood is the interval of time in which a tidal current is flooding, and the *duration of ebb* is the interval in which it is ebbing. Together they cover, on an average, a period of 12.42 hours for a semidiurnal tidal current or a period of 24.84 hours for a diurnal current. In a normal semidiurnal tidal current, the duration of flood and duration of ebb will each be approximately equal to 6.21 hours, but the times may be modified greatly by the presence of a nontidal flow. In a river the duration of ebb is usually longer than the duration of flood because of the freshwater discharge, especially during the spring when snow and ice melt are the predominant influences.

DURATION OF RISE AND DURATION OF FALL—*Duration of rise* is the interval from low water to high water, and *duration of fall* is the interval from high water to low water. Together they cover, on an average, a period of 12.42 hours for a semidiurnal tide or a period of 24.84 hours for a diurnal tide. In a normal semidiurnal tide, the duration of rise and duration of fall will each be approximately equal to 6.21 hours, but in shallow waters and in rivers there is a tendency for a decrease in the duration of rise and a corresponding increase in the duration of fall.

EBB CURRENT—The movement of a tidal current away from shore or down a tidal river or estuary. In the

mixed type of reversing tidal current, the terms *greater ebb* and *lesser ebb* are applied respectively to the ebb tidal currents of greater and lesser speed of each day. The terms *maximum ebb* and *minimum ebb* are applied to the maximum and minimum speeds of a current running continuously ebb, the speed alternately increasing and decreasing without coming to a slack or reversing. The expression maximum ebb is also applicable to any ebb current at the time of greatest speed.

EQUATORIAL TIDAL CURRENTS—Tidal currents occurring semimonthly as a result of the Moon being over the Equator. At these times the tendency of the Moon to produce a diurnal inequality in the tidal current is at a minimum.

EQUATORIAL TIDES—Tides occurring semi monthly as the result of the Moon being over the Equator. At these times the tendency of the Moon to produce a diurnal inequality in the tide is at a minimum.

FLOOD CURRENT—The movement of a tidal current toward the shore or up a tidal river or estuary. In the mixed type of reversing current, the terms *greater flood* and *lesser flood* are applied respectively to the flood currents of greater and lesser speed of each day. The terms *maximum flood* and *minimum flood* are applied to the maximum and minimum speeds of a flood current, the speed of which alternately increases and decreases without coming to a slack or reversing. The expression maximum flood is also applicable to any flood current at the time of greatest speed.

GREAT DIURNAL RANGE (Gt)—The difference in height between mean higher high water and mean lower low water. The expression may also be used in its contracted form, *diurnal range*.

GREENWICH INTERVAL—An interval referred to the transit of the Moon over the meridian of Greenwich as distinguished from the local interval which is referred to the Moon's transit over the local meridian. The relation in hours between Greenwich and local intervals may be expressed by the formula:

Greenwich interval = local interval + 0.069 L
where L is the west longitude of the local meridian in degrees. For east longitude, L is to be considered negative.

GULF COAST LOW WATER DATUM—A chart datum. Specifically, the tidal datum formerly designated for the coastal waters of the Gulf Coast of the United States. It was defined as *mean lower low water* when the type of tide was mixed and *mean low water* when the type of tide was diurnal.

HALF-TIDE LEVEL—See *mean tide level*.

GLOSSARY OF TERMS

- HARMONIC ANALYSIS**—The mathematical process by which the observed tide or tidal current at any place is separated into basic harmonic constituents.
- HARMONIC CONSTANTS**—The amplitudes and epochs of the harmonic constituents of the tide or tidal current at any place.
- HARMONIC CONSTITUENT**—One of the harmonic elements in a mathematical expression for the tide-producing force and in corresponding formulas for the tide or tidal current. Each constituent represents a periodic change or variation in the relative positions of the Earth, Moon, and Sun. A single constituent is usually written in the form $y=A \cos (at+\alpha)$, in which y is a function of time as expressed by the symbol t and is reckoned from a specific origin. The coefficient A is called the amplitude of the constituent and is a measure of its relative importance. The angle $(at+\alpha)$ changes uniformly and its value at any time is called the phase of the constituent. The speed of the constituent is the rate of change in its phase and is represented by the symbol a in the formula. The quantity α is the phase of the constituent at the initial instant from which the time is reckoned. The period of the constituent is the time required for the phase to change through 360° and is the cycle of the astronomical condition represented by the constituent.
- HIGH WATER (HW)**—The maximum height reached by a rising tide. The height may be due solely to the periodic tidal forces or it may have superimposed upon it the effects of prevailing meteorological conditions. Use of the synonymous term, *high tide*, is discouraged.
- HIGHER HIGH WATER (HHW)**—The higher of the two high waters of any tidal day.
- HIGHER LOW WATER (HLW)**—The higher of the two low waters of any tidal day.
- HYDRAULIC CURRENT**—A current in a channel caused by a difference in the surface level at the two ends. Such a current may be expected in a strait connecting two bodies of water in which the tides differ in time or range. The current in the East River, N.Y., connecting Long Island Sound and New York Harbor, is an example.
- KNOT**—A unit of speed, one international nautical mile (1,852.0 meters or 6,076.11549 international feet) per hour.
- LOW WATER (LW)**—The minimum height reached by a falling tide. The height may be due solely to the periodic tidal forces or it may have superimposed upon it the effects of meteorological conditions. Use of the synonymous term, *low tide*, is discouraged.
- LOWER HIGH WATER (LHW)**—The lower of the two high waters of any tidal day.
- LOWER LOW WATER (LLW)**—The lower of the two low waters of any tidal day.
- LUNAR DAY**—The time of the rotation of the Earth with respect to the Moon, or the interval between two successive upper transits of the Moon over the meridian of a place. The mean lunar day is approximately 24.84 solar hours long, or 1.035 times as long as the mean solar day.
- LUNAR INTERVAL**—The difference in time between the transit of the Moon over the meridian of Greenwich and over a local meridian. The average value of this interval expressed in hours is $0.069 L$, in which L is the local longitude in degrees, positive for west longitude and negative for east longitude. The lunar interval equals the difference between the local and Greenwich interval of a tide or current phase.
- LUNICURRENT INTERVAL**—The interval between the Moon's transit (upper or lower) over the local or Greenwich meridian and a specified phase of the tidal current following the transit. Examples: *strength of flood interval and strength of ebb interval*, which may be abbreviated to *flood interval and ebb interval*, respectively. The interval is described as local or Greenwich according to whether the reference is to the Moon's transit over the local or Greenwich meridian. When not otherwise specified, the reference is assumed to be local.
- LUNITIDAL INTERVAL**—The interval between the Moon's transit (upper or lower) over the local or Greenwich meridian and the following high or low water. The average of all high water intervals for all phases of the Moon is known as *mean high water lunitidal interval* and is abbreviated to high water interval (HWI). Similarly the *mean low water lunitidal interval* is abbreviated to low water interval (LWI). The interval is described as local or Greenwich according to whether the reference is to the transit over the local or Greenwich meridian. When not otherwise specified, the reference is assumed to be local.
- MEAN HIGH WATER (MHW)**—A tidal datum. The arithmetic mean of the high water heights observed over a specific 19-year Metonic cycle (the National Tidal Datum Epoch). For stations with shorter series, simultaneous observational comparisons are made with a primary control tide station in order to derive the equivalent of a 19-year value.

GLOSSARY OF TERMS

- MEAN HIGHER HIGH WATER (MHHW)**—A tidal datum. The arithmetic mean of the higher high water heights of a mixed tide observed over a specific 19-year Metonic cycle (the National Tidal Datum Epoch). Only the higher high water of each pair of high waters, or the only high water of a tidal day is included in the mean.
- MEAN HIGHER HIGH WATER LINE (MHHWL)**—The intersection of the land with the water surface at the elevation of mean higher high water.
- MEAN LOW WATER (MLW)**—A tidal datum. The arithmetic mean of the low water heights observed over a specific 19-year Metonic cycle (the National Tidal Datum Epoch). For stations with shorter series, simultaneous observational comparisons are made with a primary control tide station in order to derive the equivalent of a 19-year value.
- MEAN LOW WATER SPRINGS (MLWS)**—A tidal datum. Frequently abbreviated *spring low water*. The arithmetic mean of the low water heights occurring at the time of the spring tides observed over a specific 19-year Metonic cycle (the National Tidal Datum Epoch).
- MEAN LOWER LOW WATER (MLLW)**—A tidal datum. The arithmetic mean of the lower low water heights of a mixed tide observed over a specific 19-year Metonic cycle (the National Tidal Datum Epoch). Only the lower low water of each pair of low waters, or the only low water of a tidal day is included in the mean.
- MEAN RANGE OF TIDE (Mn)**—The difference in height between mean high water and mean low water.
- MEAN RIVER LEVEL**—A tidal datum. The average height of the surface of a tidal river at any point for all stages of the tide observed over a 19-year Metonic cycle (the National Tidal Datum Epoch), usually determined from hourly height readings. In rivers subject to occasional freshets the river level may undergo wide variations, and for practical purposes certain months of the year may be excluded in the determination of tidal datums. For charting purposes, tidal datums for rivers are usually based on observations during selected periods when the river is at or near low water stage.
- MEAN SEA LEVEL (MSL)**—A tidal datum. The arithmetic mean of hourly water elevations observed over a specific 19-year Metonic cycle (the National Tidal Datum Epoch). Shorter series are specified in the name; e.g., monthly mean sea level and yearly mean sea level.
- MEAN TIDE LEVEL (MTL)**—Also called half-tide level. A tidal datum midway between mean high water and mean low water.
- MIXED TIDE**—Type of tide with a large inequality in the high and/or low water heights, with two high waters and two low waters usually occurring each tidal day. In strictness, all tides are mixed but the name is usually applied to the tides intermediate to those predominantly semidiurnal and those predominantly diurnal.
- NATIONAL TIDAL DATUM EPOCH**—The specific 19-year period adopted by the National Ocean Service as the official time segment over which tide observations are taken and reduced to obtain mean values (e.g., mean lower low water, etc.) for tidal datums. It is necessary for standardization because of periodic and apparent secular trends in sea level. The present National Tidal Datum Epoch is 1960 through 1978. It is reviewed annually for possible revision and must be actively considered for revision every 25 years.
- NEAP TIDES OR TIDAL CURRENTS**—Tides of decreased range or tidal currents of decreased speed occurring semimonthly as the result of the Moon being in quadrature. The *neap range* (N_p) of the tide is the average semidiurnal range occurring at the time of neap tides and is most conveniently computed from the harmonic constants. It is smaller than the mean range where the type of tide is either semidiurnal or mixed and is of no practical significance where the type of tide is diurnal. The average height of the high waters of the neap tides is called *neap high water* or *high water neaps* (MHWN) and the average height of the corresponding low waters is called neap low water or low water neaps (MLWN).
- PERIGEAN TIDES OR TIDAL CURRENTS**—Tides of increased range or tidal currents of increased speed occurring monthly as the result of the Moon being in perigee or nearest the Earth. The *perigean range* (P_n) of tide is the average semidiurnal range occurring at the time of perigean tides and is most conveniently computed from the harmonic constants. It is larger than the mean range where the type of tide is either semidiurnal or mixed, and is of no practical significance where the type of tide is diurnal.
- RANGE OF TIDE**—The difference in height between consecutive high and low waters, the *mean range* is the difference in height between mean high water and mean low water. Where the type of tide is diurnal the mean range is the same as the diurnal range.

GLOSSARY OF TERMS

For other ranges, see great diurnal, spring, neap, perigean, apogean, and tropic tides.

REFERENCE STATION—A tide or current station for which independent daily predictions are given in the *Tide Tables and Tidal Current Tables*, and from which corresponding predictions are obtained for subordinate stations by means of differences and ratios.

REVERSING CURRENT—A tidal current which flows alternately in approximately opposite directions with a slack water at each reversal of direction. Currents of this type usually occur in rivers and straits where the direction of flow is more or less restricted to certain channels. When the movement is towards the shore or up a stream, the current is said to be flooding, and when in the opposite direction it is said to be ebbing. The combined flood and ebb movement including the slack water covers, on an average, 12.42 hours for the semidiurnal current. If unaffected by a nontidal flow, the flood and ebb movements will each last about 6 hours, but when combined with such a flow, the durations of flood and ebb may be quite unequal. During the flow in each direction the speed of the current will vary from zero at the time of slack water to a maximum about midway between the slacks.

ROTARY CURRENT—A tidal current that flows continually with the direction of flow changing through all points of the compass during the tidal period. Rotary currents are usually found offshore where the direction of flow is not restricted by any barriers. The tendency for the rotation in direction has its origin in the Coriolis force and, unless modified by local conditions, the change is clockwise in the Northern Hemisphere and counterclockwise in the Southern. The speed of the current usually varies throughout the tidal cycle, passing through the two maxima in approximately opposite directions and the two minima with the direction of the current at approximately 90° from the direction at time of maximum speed.

SEMIDIURNAL—Having a period or cycle of approximately one-half of a tidal day. The predominating type of tide throughout the world is semidiurnal, with two high waters and two low waters each tidal day. The tidal current is said to be semidiurnal when there are two flood and two ebb periods each day.

SET (OF CURRENT)—The direction *towards* which the current flows.

SLACK WATER—The state of a tidal current when its speed is near zero, especially the moment when a

reversing current changes direction and its speed is zero. The term is also applied to the entire period of low speed near the time of turning of the current when it is too weak to be of any practical importance in navigation. The relation of the time of slack water to the tidal phases varies in different localities. For standing tidal waves, slack water occurs near the times of high and low water, while for progressive tidal waves, slack water occurs midway between high and low water.

SPRING TIDES OR TIDAL CURRENTS—Tides of increased range or tidal currents of increased speed occurring semimonthly as the result of the Moon being new or full. The *spring range* (Sg) of tide is the average semidiurnal range occurring at the time of spring tides and is most conveniently computed from the harmonic constants. It is larger than the mean range where the type of tide is either semidiurnal or mixed, and is of no practical significance where the type of tide is diurnal. The mean of the high waters of the spring tide is called *spring high water or mean high water springs* (MHWS), and the average height of the corresponding low waters is called *spring low water or mean low water springs* (MLWS).

STAND OF TIDE—Sometimes called a platform tide. An interval at high or low water when there is no sensible change in the height of the tide. The water level is stationary at high and low water for only an instant, but the change in level near these times is so slow that it is not usually perceptible. In general, the duration of the apparent stand will depend upon the range of tide, being longer for a small range than for a large range, but where there is a tendency for a double tide the stand may last for several hours even with a large range of tide.

STANDARD TIME—A kind of time based upon the transit of the Sun over a certain specified meridian, called the *time meridian*, and adopted for use over a considerable area. With a few exceptions, standard time is based upon some meridian which differs by a multiple of 15° from the meridian of Greenwich.

STRENGTH OF CURRENT—Phase of tidal current in which the speed is a maximum; also the speed at this time. Beginning with slack before flood in the period of a reversing tidal current (or minimum before flood in a rotary current), the speed gradually increases to flood strength and then diminishes to slack before ebb (or minimum before ebb in a rotary current), after which the current turns in direction, the speed increases to ebb strength and then diminishes to slack before flood completing the cycle. If it is assumed that the speed throughout the cycle varies as the ordinates of a cosine curve, it can

GLOSSARY OF TERMS

be shown that the average speed for an entire flood or ebb period is equal to $2/\pi$ or 0.6366 of the speed of the corresponding strength of current.

SUBORDINATE CURRENT STATION—(1) A current station from which a relatively short series of observations is reduced by comparison with simultaneous observations from a control current station. (2) A station listed in the *Tidal Current Tables* for which predictions are to be obtained by means of differences and ratios applied to the full predictions at a reference station .

SUBORDINATE TIDE STATION—(1) A tide station from which a relatively short series of observations is reduced by comparison with simultaneous observations from a tide station with a relatively long series of observations. (2) A station listed in the *Tide Tables* for which predictions are to be obtained by means of differences and ratios applied to the full predictions at a reference station.

TIDAL CURRENT TABLES—Tables which give daily predictions of the times and speeds of the tidal currents. These predictions are usually supplemented by current differences and constants through which additional predictions can be obtained for numerous other places.

TIDAL DIFFERENCE—Difference in time or height of a high or low water at a subordinate station and at a reference station for which predictions are given in the *Tide Tables*. The difference, when applied according to sign to the prediction at the reference station, gives the corresponding time or height for the subordinate station .

TIDE—The periodic rise and fall of the water resulting from gravitational interactions between the Sun, Moon, and Earth. The vertical component of the particulate motion of a tidal wave. Although the accompanying horizontal movement of the water is part of the same phenomenon, it is preferable to designate the motion as tidal current.

TIDE TABLES—Tables which give daily predictions of the times and heights of high and low waters. These predictions are usually supplemented by tidal differences and constants through which additional predictions can be obtained for numerous other places.

TIME MERIDIAN—A meridian used as a reference for time.

TROPIC CURRENTS—Tidal currents occurring semimonthly when the effect of the Moon's maximum declination is greatest. At these times the tendency of the Moon to produce a diurnal inequality in the current is at a maximum.

TROPIC RANGES—The *great tropic range* (G_c), or *tropic range*, is the difference in height between tropic higher high water and tropic lower low water. The *small tropic range* (S_c) is the difference in height between tropic lower high water and tropic higher low water. The *mean tropic range* (M_c) is the mean between the great tropic range and the small tropic range. The small tropic range and the mean tropic range are applicable only when the type of tide is semidiurnal or mixed. Tropic ranges are most conveniently computed from the harmonic constants.

TROPIC TIDES—Tides occurring semimonthly when the effect of the Moon's maximum declination is greatest. At these times there is a tendency for an increase in the diurnal range. The tidal datums pertaining to the tropic tides are designated as *tropic higher high water* (T_cHHW), *tropic lower high water* (T_cLHW), *tropic higher low water* (T_cHLW), and *tropic lower low water* (T_cLLW).

TYPE OF TIDE—A classification based on characteristic forms of a tide curve. Qualitatively, when the two high waters and two low waters of each tidal day are approximately equal in height, the tide is said to be *semidiurnal*; when there is a relatively large diurnal inequality in the high or low waters or both, it is said to be *mixed*; and when there is only one high water and one low water in each tidal day, it is said to be *diurnal*.

VANISHING TIDE—In a mixed tide with very large diurnal inequality, the lower high water (or higher low water) frequently becomes indistinct (or vanishes) at time of extreme declinations. During these periods the diurnal tide has such overriding dominance that the semidiurnal tide, although still present, cannot be readily seen on the tide curve.

INDEX TO STATIONS
(Numbers refer to table 2)

[Stations marked with an asterisk (*) are reference stations for which daily predictions are given in table 1. Page numbers of reference stations are given in parentheses.]

	No.		No.
A			
Abbapoola Creek ent., S.C.....	2789	Apalachee Bay, Fla.....	4223-4237
Abbots Meadow, N.J.....	1781	Apalachicola Bay, Fla.....	4259-4273
Abraham Bay, Bahamas.....	4723	Apalachicola * (192).....	4263
Abrolhos Anchorage, Brazil.....	5043	Apalachicola River (A&N RR bridge)..	4265
Absecon Channel, N.J.....	1613	Lower Anchorage.....	4269
Absecon Creek, N.J.....	1611	West Pass.....	4271
Absecon, N.J.....	1611	Ape Hole Creek, Md.....	1993
Acklin Island, Bahamas.....	4719	Apollo Beach, Fla.....	4115
Adams Key, Fla.....	3613	Appomattox River, Va.....	2341
Admiralty Bay, South Shetland Islands..	5227	Aquia Creek, Va.....	2187
Airy Hall Plantation, S.C.....	2881	Aracaju, Brazil.....	5023
Alabama.....	4349-4377	Arctic Archipelago.....	1-41
Alabama Point, Al.....	4347	Argentina, Newfoundland * (4).....	239
Albany, N.Y. * (80).....	1393	Argentina.....	5091-5213
Albemarle and Pamlico Sounds, N.C.....	2385	Arichat, Nova Scotia.....	471
Albergottie Creek, S.C.....	2957	Ariege Bay, Newfoundland.....	215
Alberton, Prince Edward Island.....	411	Aripeka, Fla.....	4171
Alert, Arctic.....	35	Armacao dos Buzios, Brazil.....	5053
Alexandria, Va.....	2199	Arroyo, Puerto Rico.....	4821
Allanton, East Bay, Fla.....	4293	Arjuk Fjord, Greenland.....	71
Allied Chemical Corp. Docks, Ga.....	3169	Arthur Kill.....	1433-1445
Alligator Bayou, Fla.....	4299	Artificial Island, N.J.....	1777
Alligator Point, Fla.....	4235	Aruba, Lesser Antilles.....	4895
Alligator Point, Texas.....	4589	Arundel Plantation, S.C.....	2609
Alligator Reef, Fla.....	3683	Ashe Inlet, Hudson Strait.....	127
Alloway Creek, N.J.....	1779-1789	Ashepoo, S.C.....	2883
Alloway, N.J.....	1789	Ashepoo-Coosaw Cutoff, S.C.....	2871
Allston Creek, S.C.....	2547	Ashepoo River, S.C.....	2869-2883
Almirante Bay, Panama.....	4677	Ashley River, S.C.....	2757-2775
Alpine, N.J.....	1365	Assateague Beach, Toms Cove, Va.....	1919
Altamaha Sound, Ga.....	3131-3151	Assisunk Creek, N.J.....	1891
Alvarado, Mexico.....	4639	Assistance Bay.....	25
Amazon River.....	4977-4981	Atchafalaya Bay, La.....	4511-4525
Amelia City, Fla.....	3235	Atlantic Beach, Fla.....	3333
Amelia Earhart Dam, Mass.....	863	Atlantic Beach Bridge, N.C.....	2467
Amelia River, Fla.....	3231,3235	Atlantic Beach, N.C.....	2467,2471
Amherst Harbour, Gulf of St. Lawrence..	433	Atlantic Beach, N.Y.....	1317
Amherst Point, Nova Scotia.....	555	Atlantic City, N.J. * (88).....	1615
Amityville, N.Y.....	1287	Atlantic Heights, N.H.....	817
Amuay, Venezuela * (280).....	4917	Atlantic Highlands, N.J.....	1473
Anacostia River.....	2205-2211	Auburn, N.J.....	1831
Anclote, Fla.....	4155	Aucilla River, Fla.....	4223
Anclote Keys, Fla.....	4155,4161	Auld Cove, Nova Scotia.....	447
Anclote River, Fla.....	4157,4159	Avalon, Md.....	2059
Ankona, Fla.....	3433	Avon River, Nova Scotia.....	543
Andrews Ave. bridge, New River, Fla....	3537	Avon, N.C.....	2419
Andros Island, Bahamas.....	4693	Awendaw Creek, S.C.....	2671
Androscoggin River, Maine.....	735,737	B	
Anglin Fishing Pier, Fla.....	3533	Babylon, N.Y.....	1283
Angmagssalik, Greenland.....	57	Back Bay, New Brunswick.....	589
Angra dos Reis, Brazil.....	5061	Back Cove, Maine.....	769
Aningaq, Greenland.....	85	Back Creek, N.J.....	1737,1741
Anna Maria Key, Fla.....	4095,4097	Back River, Ga.....	3047
Annapolis, Severn River, Md.....	2127	Back River, Maine.....	721
Annapolis River, Nova Scotia.....	533	Back River, S.C.....	3047
Annapolis Royal, Nova Scotia.....	533	Back River, Va.....	2279
Annette Key, Fla.....	3807	Back River Reservoir, S.C.....	2741
Annie's Landing, Tx.....	4571	Baffin Bay, Greenland.....	101-109
Annisquam, Mass.....	845	Baffin Bay, Texas.....	4617
Anthony Point, R.I.....	1009	Baffin Island.....	111-115,129
Anticosti Island, Quebec.....	303-307	Bahamas.....	4689-4725
Antigonish Harbour, Nova Scotia.....	443	Bahia Anegada, Argentina.....	5129
Antilla, Cuba.....	4739	Bahia Blanca, Argentina.....	5111-5119
		Bahia Bustamante, Argentina.....	5181

	No.		No.
Bahia Camarones, Argentina.....	5171	Bay of Islands, Newfoundland.....	273
Bahia Cruz, Argentina.....	5167	Bay Park, N.Y.....	1313
Bahia de Caledonia, Panama.....	4681	Bay Point, Fla.....	4329
Bahia de Cartagena, Columbia.....	4903	Bay Shore, N.Y.....	1279
Bahia de Cienfuegos, Cuba.....	4741,4743	Bay Spring, R.I.....	1039
Bahia de Levisa entrance, Cuba.....	4741	Bayonne Bridge, N.Y. * (76).....	1399
Bahia de los Nodales, Argentina.....	5191	Bayou BouFouca, La.....	4419
Bahia de Nipe, Cuba.....	4737,4739	Bayou Cumbest, Miss.....	4381
Bahia de Nuevitas, Cuba.....	4729,4731	Bayou La Batre, Ala.....	4375,4377
Bahia de Sagua de Tanamo, Cuba.....	4743	Bayou Rigaud, Grand Isle, La.....	4477
Bahia de Tablazos, Venezuela.....	4913	Bayport, Fla.....	4175
Bahia Engano, Argentina.....	5159	Bayport, Va.....	2231
Bahia Gil, Argentina.....	5175	Bayville, Va.....	2359
Bahia Honda, Cuba.....	4771	Bayville Bridge, N.Y.....	1201
Bahia Honda Channel, Fla.....	3781,3789	Beach Channel (bridge), N.Y.....	1325
Bahia Honda Key, Fla.....	3779,3781	Beach Creek, Ga.....	3207
Bahia Honda Key Channel, Fla.....	3779	Beach Hammock, Ga.....	3055
Bahia Janssen, Argentina.....	5163	Beach Haven Crest, N.J.....	1571
Bahia Laura, Argentina.....	5193	Beach Haven Coast Guard Station, N.J...	1583
Bahia Mar Yacht Club, Fla.....	3535	Beach Point, Mass.....	903
Bahia Oso Marino, Argentina.....	5189	Beacon, N.Y.....	1375
Bahia San Blas, Argentina.....	5131	Bear Cut, Fla.....	3585
Bahia San Julian, Argentina.....	5195	Bear River, Ga.....	3079,3089
Bahia San Sebastian, Argentina.....	5207	Bear River Entrance, Ga.....	3091
Bahia Thetis, Argentina.....	5213	Beaufort Inlet Channel Range, N.C.....	2445
Baie Verte, New Brunswick.....	407	Beaufort, N.C.....	2447,2449
Bailey Cut, Ga.....	3193	Beaufort River, S.C.....	2939-2957
Baileys Landing, S.C.....	2973	Beaufort, S.C.....	2953
Bakers Haulover Inlet (inside), Fla....	3569	Beaujeu Channel, Quebec.....	345
Bald Head, N.C.....	2487	Beaver Dam, N.J.....	1801
Bald Point, Fla.....	4231	Beaverdam Creek, N.J.....	1505,1507
Baldwin, N.Y.....	1307	Beavertail Point, R.I.....	1017
Baldwin Bay, N.Y.....	1305	Beckwiths Creek, Md.....	2043
Ballast Point, Fla.....	4119	Beechy Island, Arctic.....	23
Baltimore, Md. * (108).....	2117	Bees Ferry, S.C.....	2769
Baltimore Harbor, Md.....	2109-2119	Beesleys Point, N.J.....	1625
Banana Creek, Fla.....	3383	Belem (Para), Brazil.....	4987
Banana River, Fla.....	3383-3393	Belfast, Ga.....	3095
Banco Chico, Argentina.....	5095	Belfast River, Ga.....	3095
Banco Cuirassier, Argentina.....	5097	Belfast, Maine.....	673
Bangor, Maine.....	671	Belize.....	4647,4649
Bannermans Bridge, N.C.....	2509	Belize City, Belize.....	4647
Bar Harbor, Maine * (32).....	627	Belleoram, Newfoundland.....	251
Baracoa, Cuba.....	4747	Belleville, N.J.....	1407
Barahona, Dominican Republic.....	4809	Belleville, Va.....	2255
Barataria Bay, La.....	4475-4483	Bellevue, D.C.....	2201
Barataria Pass, La.....	4473	Bellmore, N.Y.....	1301
Barbados, Lesser Antilles.....	4887	Bellmore Creek, N.Y.....	1301
Barbour Island, Ga.....	3115	Bellot Strait, Arctic.....	17
Barbour Island River, Ga.....	3113-3115	Bellville Point, Ga.....	3121
Barnegat Bay, N.J.....	1515-1555	Bells River, Fla.....	3225,3227
Barnegat Inlet, N.J.....	1549	Belmar, N.J.....	1497
Barnegat Pier, N.J.....	1531	Ben Sawyer Bridge, S.C.....	2699
Barnes Sound, Fla.....	3631,3633	Benedict, Md.....	2151
Barnstable Harbor, Mass.....	903	Bennet's Dock, S.C.....	2555
Barra de Maturin, Venezuela.....	4933	Berkeley Sound, Falkland Is.....	5215
Barra do Rio Grande, Brazil.....	5085	Bermuda, St. George Island * (236)....	4687
Barren Island, Jamaica Bay, N.Y.....	1323	Bermuda Islands.....	4683-4687
Barren Island, Md.....	2035	Bernard Bayou, Miss.....	4401,4403
Barrington Passage, Nova Scotia.....	517	Berrys Creek, N.J.....	1417
Barron River, Fla.....	3989	Berthier, Quebec.....	349
Barrow Strait, Arctic.....	23-27	Betchewun Harbour, Quebec.....	297
Bass Harbor, Maine.....	631	Betsiamites River, Quebec.....	325
Bass River, Mass.....	925	Betterton, Md.....	2095
Bastian Island, La.....	4469	Biddeford, Maine.....	789
Batiscan, Quebec.....	367	Bidwell Creek, N.J.....	1687,1689
Bath, Maine.....	731	Big Bay Creek, S.C.....	2837-2841
Bathurst, New Brunswick.....	387	Big Coppitt Key, Fla.....	3939
Battery Creek, S.C.....	2951	Big Island, Ashe Inlet, Hudson Bay....	127
Battle Harbour, Labrador.....	205	Big Lagoon, Fla.....	4339
Bay Aristocrat Village, Fla.....	4131	Big Marco River, Fla.....	4003
Bay d'Espoir, Newfoundland.....	253,255	Big Paradise Island, S.C.....	2753
Bay Gardene, La.....	4437	Big Pine Key, Fla.....	3783-3831
Bay of Fundy.....	521-593	Big Spanish Channel, Fla.....	3793-3807

	No.		No.
Big Spanish Key, Fla.....	3811	Boynton Beach, Fla.....	3507
Big Timber Creek, N.J.....	1861,1863	Braddock Point, S.C.....	2997
Big Torch Key, Fla.....	3835,3847	Bradenton, Fla.....	4099
Billingsport, N.J.....	1849	Bradenton Beach, Fla.....	4095
Billys Point, Fla.....	3607	Bradley Point, Ga.....	3083
Biloxi, Biloxi Bay, Miss.....	4399	Bradley River, Ga.....	3083
Biltmore Shores, N.Y.....	1289	Bradore Bay, Quebec.....	285
Bing Landing, Fla.....	3355	Brandypot Islands, Quebec.....	335
Biological Station, Bermuda Is.....	4685	Brandywine Shoal Light, N.J.....	1677
Birch Islands, Maine.....	603	Branford, Conn.....	1117
Bird Key, Fla.....	3931	Brant Rock, Mass.....	889
Biscayne Bay, Fla.....	3577-3583	Brazil.....	4971-5085
Biscayne Creek, Fla.....	3561,3563	Brazos Santiago, TX.....	4619
Biscayne Channel, Fla.....	3589	Breach Inlet, S.C.....	2695
Bishop Head, Md.....	2031	Breakwater Harbor, Del * (92).....	1747
Bivalve, N.J.....	1709	Breton Islands, La.....	4439
Black Creek, Fla.....	3315	Brewer Point, Severn River, Md.....	2125
Black Mingo Creek, S.C.....	2601	Briars Creek, S.C.....	2913
Black River, S.C.....	2593-2601	Brickyard Creek, S.C.....	2917,2955
Black Rock Harbor, Conn.....	1137	Brickyard Ferry, S.C.....	2879
Blackbeard Creek, Ga.....	3133	Brickyard Point, S.C.....	2917
Blackbeard Island, Ga.....	3117,3133	Bridesburg, Pa.....	1871
Blackbird Creek, Del.....	1775	Bridgeboro, Rancocas Creek, N.J.....	1881
Blacks Creek, N.J.....	1899	Bridgeport, Conn. * (64).....	1135
Blackwater River, Fla.....	4329-4335	Bridgeport, N.J.....	1835
Blackwater Sound, Fla.....	3639,3641	Bridgetown, Barbados.....	4887
Bladensburg, Md.....	2211	Bridgewater, Nova Scotia.....	509
Blake Cove, Va.....	1933	Bridport Inlet, Melville Island.....	7
Blessing Plantation, S.C.....	2731	Brielle, N.J.....	1501
Block Island, R.I.....	1061,1063	Brigantine Channel, N.J.....	1607
Blomsterbugten, Greenland.....	53	Bristol Ferry, R.I.....	1025
Bloody Point, S.C.....	3019	Bristol Harbor, R.I.....	1027
Blount Island Bridge, Fla.....	3279	Bristol Highlands, R.I.....	1029
Bluefields Lagoon, Nicaragua.....	4671	Broad Bay Canal, Va.....	2365
Blue Angels Park, Fla.....	4341	Broad Creek, Md.....	2055
Blue Hill Bay, Maine.....	633-637	Broad Creek, S.C.....	2999,3001
Blue Hill Harbor, Maine.....	633	Broad River, S.C.....	2977-2995
Bluff Island, S.C.....	2877	Brooklyn Bridge, N.Y.....	1185
Bluff Plantation, S.C.....	2907	Broomes Island, Md.....	2149
Bluff Point, S.C.....	2827	Browseware Bay, N.Y.....	1315
Bluffton, S.C.....	3015	Broughton Point, S.C.....	2979
Boca Chica Key, Fla.....	3943-3951	Broward River, Fla.....	3285
Boca Chita Key, Fla.....	3597	Brown Cove, Va.....	2363
Boca Ciega Bay, Fla.....	4137-4145	Brown Island, S.C.....	2651
Boca Pedernales entrance, Venezuela....	4937	Browns Bay, Va.....	2257
Boca Raton, Fla.....	3521	Brunswick, East River, Ga.....	3165
Bocas del Toro, Panama.....	4677	Brunswick, Maine.....	737
Boggy Creek, Fla.....	3251	Buchanan Creek entrance, Va.....	2361
Bogie Channel, Fla.....	3785,3787	Buck Hall, S.C.....	2671
Bogie Channel Bridge, Fla.....	3787	Bucksport, Maine.....	665
Bogue Inlet, N.C.....	2475	Bucksport, S.C.....	2629
Bogue Sound, N.C.....	2465	Buenos Aires, Argentina * (304).....	5091
Bogues Bay, Va.....	1925	Buffalo Bluff, Fla.....	3327
Bohicket Creek, S.C.....	2805,2807,2809	Buffalo River entrance, Ga.....	3173
Bokeelia, Fla.....	4063	Bulkhead Shoal Channel, Del.....	1815
Bon Secour, Bon Secour River, Ala.....	4355	Bulls Bay, S.C.....	2665-2675
Bonasse Pier, Trinidad.....	4947	Bull Creek, Waccamaw R., S.C.....	2625,2627
Bonne Bay, Newfoundland.....	275	Bull Creek, Calibogue Sd., S.C....	3005,3009
Bonneau Ferry, S.C.....	2729	Bull Island, S.C.....	3005
Boot Key Harbor, Fla.....	3747	Bull River, S.C.....	2911,2913
Boothbay Harbor, Maine.....	709	Bullock Cove, R.I.....	1039
Boston, Mass. * (40).....	859	Buntings Bridge, Md.....	1941
Boston Harbor, Mass.....	855-869	Burlington, N.J.....	1889
Boston Light, Mass.....	855	Burnside River, Ga.....	3069
Boston Neck, R.I.....	1055	Burnt Coat Harbor, Maine.....	639
Botany Bay, St. Thomas, VI.....	4845	Burnt Fort, Ga.....	3197
Bourndale, Cape Cod Canal.....	899	Burnt Island, Maine.....	681
Bourne Bridge, Cape Cod Canal.....	901	Burntcoat Head, Nova Scotia.....	547
Bow Channel, Fla.....	3879,3881	Burwell Bay, Va.....	2313
Bowdoinham, Maine.....	739	Bush River, Md.....	2107
Bowen Point, N.C.....	2515	Button Islands, Labrador.....	167
Bowles Island, S.C.....	2897	Buttonwood Sound, Fla.....	3653
Boy Scout Dock, Fla.....	3481	Buzzards Bay, Mass.....	971-999
Boyds Creek, S.C.....	2983,2985	Byam Martin Island, Arctic.....	9

	No.		No.
		Cape Lawrence, Arctic.....	103
		Cape Lookout, N.C.....	2429,2431
		Cape May Inlet, N.J.....	1667-1671
		Cape May, N.J.....	1673,1675
		Cape May (ferry terminal), N.J.....	1681
		Cape May Harbor, N.J.....	1671
		Cape May Point, N.J.....	1679
		Cape Morris Jesup, Arctic.....	41
		Cape Neddick, Maine.....	797
		Cape Porpoise, Maine.....	791
		Cape Romain, S.C.....	2659
		Cape Romain, S.C., 46 miles E. of.....	2661
		Cape Romano, Fla.....	4001
		Cape Sabine, Greenland.....	105
		Cape Sable, East Cape, Fla.....	3975
		Cape Sheridan, Arctic.....	37
		Cape Tormentine, New Brunswick.....	405
		Capers Creek, S.C.....	2685
		Capers Creek, Beaufort R., S.C.....	2947
		Capers Inlet, S.C.....	2683
		Capers Island, S.C.....	2679,2681,2685
		Capers Island, Port Royal Sound, S.C...	2927
		Captiva Island, Fla.....	4047-4053
		Carapachibey, Cuba.....	4765
		Caraquet Harbour, New Brunswick.....	389
		Caravelas, Brazil.....	5041
		Card Sound, Fla.....	3617-3627
		Cardenas, Cuba.....	4777
		Carenage Bay, Trinidad.....	4943
		Carenero, Venezuela.....	4921
		Carleton Point, Quebec.....	381
		Carlos Point, Fla.....	4021
		Carlstadt, N.J.....	1419
		Carr Creek, S.C.....	2605
		Carrabelle, Carrabelle River, Fla.....	4245
		Cartagena, Colombia.....	4903
		Carteret, N.J.....	1439
		Carter's Cut, Fla.....	3393
		Carters Dock, S.C.....	2839
		Cartwright Harbour, Labrador.....	195
		Carupano, Venezuela.....	4927
		Carysfort Reef, Fla.....	3637
		Casco Bay, Maine.....	741-781
		Casilda, Cuba.....	4759
		Casino Creek, S.C.....	2663
		Castine, Maine.....	659
		Castle Hayne, N.C.....	2507
		Castle Hill, R.I.....	1013
		Castleton-on-Hudson, N.Y.....	1391
		Castors Harbour, Newfoundland.....	281
		Castries, St. Lucia.....	4881
		Cat Island, Bahamas.....	4711
		Cat Island, Miss.....	4405
		Cat Point, Fla.....	4259
		Cathance River, Maine.....	739
		Cawee Islands, Quebec.....	313
		Caxambas Pass, Fla.....	3997
		Cay Sal Bank, Bahamas.....	4691
		Cayenne, French Guiana.....	4969
		Cayos de Perlas, Nicaragua.....	4667
		Cedar Beach, New York.....	1215
		Cedar Creek, Delaware Bay, N.J....	1735,1737
		Cedar Creek, Barnegat Bay, N.J.....	1535
		Cedar Heights, Fla.....	3285
		Cedar Island, S.C.....	2643
		Cedar Island Point, S.C.....	2649
		Cedar Key, Fla. * (184).....	4205
		Cedar Run, N.J.....	1567
		Cedar Swamp Creek, N.J.....	1631
		Cedar Tree Neck, Mass.....	959
		Cedarville, N.J.....	1737
		Center Harbor, Maine.....	641
		Centreville Landing, Md.....	2079
		Ceylon, Ga.....	3195
C			
Cabedelo, Brazil.....	5013		
Cabo Blanco, Argentina.....	5185		
Cabo Frio, Brazil.....	5055		
Cabo Gracias a Dios, Nicaragua.....	4663		
Cabo Raso, Argentina.....	5165		
Cabo San Antonio, Cuba.....	4769		
Cabo San Pablo, Argentina.....	5211		
Cabo Virgenes, Argentina.....	5205		
Caillou Bay, La.....	4505,4507		
Caillou Boca, La.....	4503		
Cainhoy, S.C.....	2751		
Calcasieu Ship Channel, La.....	4541		
Calcasieu Pass, La.....	4539		
Calcasieu River, La.....	4543		
Caleta de los Loros, Argentina.....	5137		
Caleta Horno, Argentina.....	5175		
Caleta Leones, Argentina.....	5173		
Caleta Valdes, Argentina.....	5149		
Calibogue Cay, S.C.....	2999		
Calibogue Sound, S.C.....	2997-3035		
Callawassie Creek, S.C.....	2967		
Callawassie Island, S.C.....	2969		
Callawassie Island Bridge, S.C.....	2971		
Caloosahatchee River, Fla.....	4035-4039		
Camamu, Brazil.....	5031		
Cambridge, Md.....	2045		
Cambridge Bay, Arctic.....	11		
Caminada Pass, La.....	4485		
Camocim, Brazil.....	4999		
Camp Ellis, Maine.....	787		
Camp Lloyd, Greenland.....	79		
Camp Michigan, Greenland.....	83		
Campbellton, New Brunswick.....	383		
Campobello Island, New Brunswick....	585,587		
Canaday Landing, S.C.....	2859		
Canal Bermejo, Argentina.....	5123		
Canal de Braganca, Brazil.....	4983		
Canal del Sur, Argentina.....	5121		
Cananea, Brazil.....	5069		
Canarsie, N.Y.....	1335		
Canavieiras, Brazil.....	5035		
Cane Patch Creek, Ga.....	3081		
Canova Beach, Fla.....	3401		
Canso, Strait of, Nova Scotia.....	473		
Canso Harbour, Nova Scotia.....	477		
Canton, N.J.....	1763		
Cap a la Roche, Quebec.....	365		
Cap Chat, Quebec.....	317		
Cape Adair, Arctic.....	107		
Cape Bear, Prince Edward Island.....	425		
Cape Borgen, Arctic.....	45		
Cape Breton Island, Nova Scotia.....	449-453		
Cape Bryant, Arctic.....	39		
Cape Canaveral, Fla.....	3375		
Cape Cassipore, Brazil.....	4971		
Cape Charles Harbor, Va.....	1973		
Cape Cod, Mass.....	911-917		
Cape Cod Bay, Mass.....	891-909		
Cape Cod Canal, Mass.....	895-901,979		
Cape Columbia, Arctic.....	33		
Cape Coral Bridge, Fla.....	4037		
Cape Dyer, Baffin Island.....	115		
Cape Fear, N.C.....	2485		
Cape Fear River, N.C.....	2487-2509		
Cape George, Nova Scotia.....	441		
Cape Hatteras, N.C. * (132).....	2415,2417		
Cape Henry, Va.....	2369		
Cape Hewett, Arctic.....	109		
Cape Hooper, Baffin Island.....	111		
Cape Island Creek, N.J.....	1673		
Cape Jack, Nova Scotia.....	445		

	No.		No.
Chaleur Bay, Canada.....	377-391	Clambank Creek Dock, S.C.....	2563
Champlain, Quebec.....	369	Clapboard Creek, Fla.....	3275
Champney Island, Ga.....	3147	Clarence Harbor, Bahamas.....	4715
Chance, Md.....	2011	Claremont, Va.....	2329
Channel Five, Fla.....	3713,3715	Clarks Point, Mass.....	991
Channel Key, Fla.....	3945	Clear Lake, Texas.....	4565
Channel Marker Lt. #59, N.C.....	2439	Clearwater Fiord, Canada.....	117
Channel No. 3, Saddlebunch Keys, Fla...	3929	Clearwater, Fla.....	4149
Channel No. 4, Saddlebunch Keys, Fla...	3927	Clearwater Beach, Fla.....	4151
Channel No. 5, Saddlebunch Keys, Fla...	3925	Cliff Island, Maine.....	759
Channel Two, Fla.....	3709,3711	Cliffs Point, Md.....	2081
Chappaquiddick Island, Mass.....	949	Cliffs Wharf, Md.....	2083
Chappaquoit Pt., Mass.....	973	Clifton Beach, Md.....	2189
Charles City, Va.....	2335	Clinton, Conn.....	1109
Charles River, Mass.....	861	Clouter Creek, S.C.....	2713,2721
Charleston, S.C. * (144).....	2709	Club Bridge Creek, S.C.....	2929
Charleston Harbor, S.C.....	2701-2775	Coan River, Va.....	2161
Charlestown, Md.....	2101	Coates Point, N.J.....	1525
Charlestown, Mass.....	861	Coatzacoalcos, Mexico.....	4641
Charlotte Amalie, VI * (268).....	4855	Cobscook Bay, Maine.....	599-605
Charlotte Harbor, Fla.....	4061-4075	Cocheco River, N.H.....	821
Charlottetown, Prince Edward Island....	427	Cocoa Beach, Fla.....	3379
Charlton Island, Hudson Bay.....	145	Cocoanut Key, Fla.....	3765
Chassahowitzka Bay, Fla.....	4177	Cocodrie, La.....	4499
Chassahowitzka, Fla.....	4179	Cocohatchee River, Fla.....	4013,4015
Chateau Bay, Labrador.....	207	Coconut Point, Fla.....	4019
Chatham, Mass.....	911,913	Codroy Road, Newfoundland.....	267
Chatham River, Florida.....	3985	Coffee Bluff, Ga.....	3071
Cheatham Annex, Va.....	2267	Coffins Point, Maine.....	601
Chechessee Bluff, S.C.....	2975	Cohansey River, N.J.....	1743,1745
Chechessee River, S.C.....	2963	Cohasset Harbor, Mass.....	883
Cheesequake Creek, N.J.....	1461	Colburn Creek, Md.....	2001
Chef Menteur Pass, La.....	4425	Cold Spring Harbor, N.Y.....	1203
Chehaw River, S.C.....	2899	Coles Neck, Va.....	2167
Chelsea, N.Y.....	1437	College Point, N.Y.....	1161
Chelsea River, Mass.....	865	Colleton River, S.C.....	2965-2973
Cherry Grove, S.C.....	2529	Colombia.....	4897-4909
Cherry Island, Md.....	2043	Colon, Panama.....	4659
Chesapeake and Delaware Canal.....	1805-1809	Colonia, Uruguay.....	5089
Chesapeake Bay.....	1967-2367	Colonial Beach, Va.....	2175
Chesapeake Bay Bridge Tunnel * (116)...	2355	Colton's Point, Md.....	2171
Chesapeake Beach, Md.....	2141	Combahee River, S.C.....	2897-2909
Chesapeake City, Md.....	1809	Combahee River Highway Bridge, S.C.....	2905
Chesconessex Creek, Va.....	1981	Comfort Bight, Labrador.....	199
Chester, Bells River, Fla.....	3225	Comfort Island, La.....	4435
Chester, Mahone Bay, Nova Scotia.....	501	Comodoro Rivadavia, Argentina * (312)..	5183
Chester River, Md.....	2075-2087	Compton Creek, N.J.....	1471
Chester, Va.....	2345	Conanicut Island, R.I.....	1017-1021
Chesterfield Inlet, Hudson Bay.....	135	Conception Bay, Newfoundland.....	231
Chestertown, Md.....	2085	Conch Bar, Jupiter Sound, Fla.....	3461
Chestnut Neck, N.J.....	1595	Coney Island, N.Y.....	1339
Cheticamp, Nova Scotia.....	453	Conimicut Light, R.I.....	1037
Chickahominy River, Va.....	2323-2327	Connecticut.....	1071-1151
Chickasaw Creek, Ala.....	4371	Connecticut River.....	1083-1105
Chicoutimi, Quebec.....	333	Connetquot River, N.Y.....	1277
Chignecto Bay, Nova Scotia.....	551	Connoire Bay, Newfoundland.....	261
Chincoteague Bay, Md. and Va.....	1919-1943	Constable Hook, N.J.....	1397
Chincoteague Channel, Va.....	1923	Content Keys, Fla.....	3853
Chincoteague Island, Va.....	1927-1933	Content Passage, Fla.....	3853
Choctawhatchee Bay, Fla.....	4305,4307	Conway, S.C.....	2637
Chokoloskee, Fla.....	3987	Cook Landing, S.C.....	3029
Choptank River, Md.....	2045-2049	Coon Key, Fla.....	3999
Christiansted, Virgin Islands.....	4867	Coon Point, Fla.....	3601
Christina River, Del.....	1823-1825	Cooper R., Charleston Hbr., S.C....	2713-2743
Christmas Point, Fla.....	3611	Cooper R., Calibogue Sd., S.C.....	3003-3007
Christmas Bay, Texas.....	4591	Cooper R., RR Bridge, N.J.....	1869
Church Creek, S.C.....	2831	Coopers Creek, N.J.....	1785
Church Creek, Bohicket Ck., S.C.....	2833	Coosaw River, S.C.....	2911-2923
Church Flats, S.C.....	2799	Coosawhatchie River, S.C.....	2993
Churchill, Hudson Bay.....	137	Coral Bay, N.C.....	2471
Cienfuegos, Cuba * (244).....	4763	Coral Harbor, VI.....	4863
Cinnaminson, N.J.....	1875	Coral Harbour, Hudson Bay.....	133
City Point, Va.....	2339	Coral Shoal, Fla.....	3589
Claiborne, Md.....	2065	Core Creek Bridge, N.C.....	2455

	No.		No.
Core Sound, N.C.....	2437		
Corey Causeway, Fla.....	4141	D	
Cormorant Point, Fla.....	3625		
Cornfield Creek, Md.....	2123	Dahlgren, Va.....	2177
Cornfield Harbor, Md.....	2157	Dalhousie, New Brunswick.....	385
Corning Landing, S.C.....	2987	Dallas Bluff, Ga.....	3111
Cornwells Heights, Pa.....	1887	Damariscotta River, Maine.....	701-705
Corpus Christi, Texas.....	4615	Damariscove Harbor, Maine.....	707
Corrotoman River, Va.....	2227	Damariscove Island, Maine.....	707
Corsica River, Md.....	2079	Dame Point, Fla.....	3281
Corson Inlet, N.J.....	1637-1641	Damons Point, Mass.....	887
Cortez, Fla.....	4091	Dania Cut-off Canal, Fla.....	3547
Cos Cob Harbor, Conn.....	1151	Danmarks Havn, Greenland.....	43
Cosgrove Bridge.....	2765	Danmarks Island, Greenland.....	55
Costa Rica.....	4675	Darby Creek, Pa.....	1839-1847
Cote Blanche, La.....	4527	Darien River, Ga.....	3139,3141
Cotuit Highlands, Mass.....	929	Datum Bay, Bahamas.....	4719
County Landing, Station Creek, S.C.....	2937	Daufuskie Island, S.C.....	3019-3023
Coupon Bight, Fla.....	3823	Daufuskie Landing, S.C.....	3023
Cove Point, Md.....	2145	Dauphin Island, La. * (200).....	4351
Covenas, Colombia.....	4901	Davis, N.C.....	2437
Cow Island, Maine.....	765	Davis Bayou, Miss.....	4383
Cow Key Channel, Fla.....	3955	Davis Island, Fla.....	4123
Cowen Creek, S.C.....	2943-2949	Davis Slough, N.C.....	2405
Cowpens Anchorage, Fla.....	3671	Davis Strait.....	111-119
Crab Haul Creek, S.C.....	2561	Dawho, S.C.....	2849
Crandall, St. Marys River, Fla.....	3217	Dawho Bridge, S.C.....	2819
Crane Keys, Fla.....	3665	Daytona Beach Shores, Fla.....	3361
Craney Island, Va.....	2285	Deadman Bay, Fla.....	4215
Crawl Key, Fla.....	3803	Dean Hall, S.C.....	2727
Creighton Narrows Ent., Ga.....	3127	Dease Strait, Arctic.....	11
Crescent River, Ga.....	3127	Deception Island, Sough Shetlands Is... ..	5225
Crisfield, Md.....	1999	Deep Creek, Va.....	2297
Crispen Island, Ga.....	3167	Deep Creek Meadow, N.Y.....	1295
Cristobal, Panama * (232).....	4679	Deep Landing, Md.....	2089
Croatan Sound, N.C.....	2409-2413	Deep Neck Point, Md.....	2055
Cromakill Creek, N.J.....	1425	Deep Six Marina, Fla.....	3641
Crooked River, Ga.....	3211,3213	Deer Island, Mass.....	857
Cross River entrance, Maine.....	715	Deer Isle, Maine.....	647,649
Crosswicks Creek, N.J.....	1901,1903	Deerfield Beach, Fla.....	3523
Crow Point, Mass.....	875	Delaware.....	1747-1907
Crumpton, Md.....	2087	Delaware Bay.....	1677-1755
Crystal Bay, Fla.....	4189-4193	Delaware City.....	1811,1813
Crystal River, Fla.....	4195-4201	Delaware River.....	1757-1905
Cuba.....	4727-4777	Delray Beach, Fla.....	3513,3515
Cuba Island, N.Y.....	1299	Democrat Point, N.Y.....	1265
Cuckolds Creek, S.C.....	2909	Dennis Creek, N.J.....	1691-1695
Cudjoe Bay, Fla.....	3859,3863	Dennisport, Mass.....	923
Cudjoe Channel, Fla.....	3883,3885	Despair Bay, Newfoundland.....	253,255
Cudjoe Key, Fla.....	3863,3869-3873,3877	Destin, Fla.....	4305
Culebra Island, P.R.....	4833	Deweese Inlet, S.C.....	2687
Culebra, P.R.....	4835	Deweese Island, S.C.....	2683,2687
Culebrita, Isla, P.R.....	4825	Diana Bay, Hudson Strait.....	155
Cumana, Venezuela.....	4923	Dias Creek, N.J.....	1685
Cumberland, S.C.....	2591	Dickerson bay, Fla.....	4233
Cumberland Dividings, Ga.....	3211	Digby, Nova Scotia.....	531
Cumberland Island, Ga.....	3207,3209	Digges Harbour, Hudson Strait.....	147
Cumberland Sound, Ga. and Fla.....	3203-3233	Dillard Creek, Ga.....	3171
Cumberland River, Ga.....	3199	Dinner Key Marina, Biscayne Bay, Fla... ..	3583
Cumberland Wharf, Ga.....	3199	Dinner Point Creek, N.J.....	1569
Cumuruxatiba, Brazil.....	5039	Discovery Harbor, Arctic.....	101
Cundy Harbor, Maine.....	741	Disko Island, Greenland.....	89
Cuno, Fla.....	3245	Distant Island, S.C.....	2943
Curacao, Lesser Antilles.....	4893	Distant Island Creek, S.C.....	2945
Curlew Harbour, Labrador.....	197	District of Columbia.....	2201-2211
Cushing Island, Maine.....	775	Dividing Creek, N.J.....	1719-1723
Customhouse Wharf, Charleston, S.C.....	2709	Divine's Dock, S.C.....	2539
Curtis Creek, Md.....	2115	Dixie, Va.....	2249
Cutler, Biscayne Bay, Fla.....	3591	Dixie Bay, Fla.....	4193
Cutler, Maine.....	607,609	Doboy Sound, Ga.....	3131-3151
Cutts Island, Maine.....	803	Dochet Island, Maine.....	595
Cuttyhunk, Mass.....	969	Dock Thorofare, Risley Channel, N.J.... ..	1621
Cypremort Point, La.....	4531	Doctors Arm, Fla.....	3785
		Doctors Lake, Fla.....	3311

	No.
Dodge Island, Fla.....	3581
Dog Hammock, Ga.....	3119
Dog Island, St. Thomas, VI.....	4857
Dog Island, Fla.....	4239,4241
Dog River, Ala.....	4363
Dogwood Harbor, Md.....	2059
Dominican Republic.....	4793-4811
Don Pedro Island State Park, Fla.....	4079
Donald Ross Bridge, Fla.....	3491
Dorothea Bay, St. Thomas, VI.....	4847
Double Creek, N.J.....	1553
Doughboy Island, S.C.....	3025
Dover, N.H.....	821
Dover Bluff, Ga.....	3189
Dover Bridge, Md.....	2047
Dover Creek, Ga.....	3189
Dover Point, N.H.....	819
Doyle Point, Maine.....	753
Drayton, S.C.....	2769
Dry Tortugas, Fla.....	3969,3971
Duck Island Roads, Conn.....	1107
Duck Island, S.C.....	2763
Duck Key, Fla.....	3731,3921
Duke Marine Lab., N.C.....	2449
Duck Pier, N.C. * (124).....	2383
Dumfoundling Bay, Fla.....	3559
Dunbar, Fla.....	2595
Dunedin, Fla.....	4153
Dunn Sound, S.C.....	2521-2525
Dunns Creek, Fla.....	3325
Dupont, S.C.....	2727
Duxbury, Mass.....	891
Dyckman Street, N.Y.....	1359

E

Eagle Creek, Ga.....	3125
Eagle Neck, Ga.....	3105
Eagle Point, Texas.....	4563
East 41st Street, N.Y.....	1177
East 90th Street, N.Y.....	1173
East Arsenicker, Fla.....	3617
East Bahia Honda Key, Fla.....	3763
East Bay, Fla.....	4289-4297
East Bay, Pensacola Bay.....	4327
East Bay, Texas.....	4581,4583
East Boothbay, Maine.....	701
East Branch, Cooper River, S.C.....	2729-2737
East Cape, Fla.....	3975
East Creek, N.J.....	1697
East Dennis, Mass.....	905
East Greenwich, R.I.....	1051
East Key, Fla.....	3667
East Point, N.J.....	1707
East Point, Grand Isle, La. * (212)....	4475
East River, Ga.....	3165
East River, N.Y.....	1159-1187
Brooklyn Bridge.....	1185
Williamsburg Bridge.....	1181
East River, Va.....	2253
East Rockaway Inlet, N.Y.....	1317
East Rutherford, N.J.....	1409
Eastern Bay, Md.....	2061,2065
Eastern Channel, Maine.....	663
Eastport, Maine * (28).....	597
Eatons Neck Point, N.Y.....	1205
Eau Gallie, Fla.....	3403
Eclipse Harbour, Labrador.....	171
Edding Point Creek, S.C.....	2889
Eden, Fla.....	3435
Edgartown, Mass.....	947
Edgely, Pa.....	1893
Edgemoor, Del.....	1827
Edgewater, Md.....	2131

	No.
Edgewater, N.J.....	1357
Edisto Beach, S.C.....	2835
Edisto Island, S.C.....	2835
Edisto Marina, S.C.....	2837
Edisto River, S.C.....	2803-2825
Edwards Creek, Fla.....	3243
Eel Point, Mass.....	939
Egg Islands, Ga.....	3067
Eggemoggin Reach, Maine.....	641-643
Egmont Channel, Fla.....	4093
Egmont Key, Fla.....	4093
El Chara (Punta Laberinto), Argentina..	5127
El Jobean, Fla.....	4073
Elbow Cay, Bahamas.....	4691
Eleuthera Island, Bahamas.....	4707,4709
Elizabeth River, Va.....	2285-2297
Elk River, Md.....	2097-2099
Elliot Cut, S.C.....	2791
Elliott Key, Fla.....	3601,3603,3607-3611
Elliott Key Harbor, Fla.....	3603
Ellis Bay, Quebec.....	307
Ellsworth, Maine.....	637
Elsinboro, N.J.....	1791
Empire Jetty, La.....	4467
Englewood, Fla.....	4081
Englishman Bay, Maine.....	615
Ensenada Honda, P.R.....	4833
Enterprise Landing, S.C.....	2631
Erin Bay, Trinidad.....	4949
Escambia Bay, Fla.....	4321-4325
Essequibo River, Guiana.....	4955
Essex, Conn.....	1089
Essex, Mass.....	843
Esteros Bay, Fla.....	4017-4027
Esteros Island, Fla.....	4027
Esteros River, Fla.....	4023
Eugene Island, La.....	4511
Euhaw Creek, S.C.....	2981
Everglades City, Fla.....	3989
Ewell, Md.....	2007
Exploits Lower Harbour, Newfoundland...	221

F

Falkland Islands.....	5215,5217
Fall River, Mass.....	1033
Falmouth Foreside, Maine.....	755
Falmouth Heights, Mass.....	933
Farmdale, Fla.....	4291
Faro Recalada, Argentina.....	5107
Faro Segunda Barranca, Argentina.....	5153
Fat Deer Key, Fla.....	3739,3741
Father Point, Quebec.....	327
Federal Point, N.C.....	2495
Fenwick Island, S.C.....	2845
Fernandina Beach, Fla * (152).....	3231
Fernando de Noronha, Brazil.....	5005
Ferry Cove, Md.....	2061
Ferry Point, Va.....	2323
Ferry Reach, St. Georges Island.....	4685
Fields Cut, S.C.....	3033
Fields Point, S.C.....	2901
Fieldsboro, N.J.....	1895
Finnsbu, Greenland.....	59
Finsch Islands, Greenland.....	49
Fire Island Coast Guard Station, N.Y...	1267
Fire Island Inlet, N.Y.....	1265
Fire Island Light, N.Y.....	1269
Fish Creek, N.J.....	1417
Fishermans Channel, Fla.....	3581
Fishermans Island, Va.....	1967
Fishermans Rest, Fla.....	4217
Fishers Island, N.Y.....	1073
Fishing Bay, Md.....	2027

	No.		No.
Fishing Bend, Fla.....	4313	Freeport, Texas.....	4597, 4599
Fishing Creek, N.J.....	1725	French Guiana.....	4965-4969
Fishmaster's Harbor, Greenland.....	77	Frenchman Bay, Maine.....	625
Five Fathom Creek, S.C.....	2665	Frenchman's Cove, Newfoundland.....	273
Fivemile River, Conn.....	1145	Fresh Creek, Bahamas.....	4693
Flagler Beach, Fla.....	3357	Freshwater Canal Locks, La.....	4535
Flamingo, Fla.....	3685	Friendship Harbor, Maine.....	693
Flat Creek, N.J.....	1557	Fripp Inlet Bridge, S.C.....	2925
Fleeton Point, Va.....	2217	Frobisher Bay, Canada.....	119
Fleming Key, Fla.....	3959	Frontera, Mexico.....	4643
Florianoapolis, Brazil.....	5079	Fulton, Fla.....	3277
Florida.....	3217-4345	Fury and Hecla Strait, Arctic.....	13
Florida Bay.....	3655, 3717		
Florida Keys.....	3585-3973	G	
Florida Passage, Ga.....	3077, 3079	Gabarus Cove, Nova Scotia.....	467
Florida Power, Fla.....	4195	Galesville, Md.....	2137
Floridatown, Fla.....	4325	Gallant Channel, N.C.....	2451
Floyd Creek, Ga.....	3201	Galleon Harbour, Jamaica.....	4783
Flushing Bay, N.Y.....	1161, 1163	Galt Island, Fla.....	4045
Fogo Harbour, Newfoundland.....	223	Galveston, Texas * (216).....	4557
Folly River Bridge, S.C.....	2781	Galveston Bay, Texas.....	4559-4583
Folly Creek, Va.....	1951	Galveston Bay Entrance, Texas.....	4555
Folly Creek, S.C.....	2783	Galveston Pleasure Pier, Texas.....	4593
Folly Island, S.C.....	2779-2785	Galveston Railroad Bridge, Texas.....	4585
Folly River, S.C.....	2781-2785	Gandy Bridge, Fla.....	4129
Fore River, Maine.....	779	Garden City Pier, S.C.....	2535
Forest River, Ga.....	3071	Garden City Bridge, S.C.....	2537
Forge Pond, N.J.....	1509	Garden Cove, Fla.....	3643
Forked River, N.J.....	1541	Garden Key, Fla.....	3969
Fort Caswell, N.C.....	2489	Garden State Parkway, N.J.....	1461
Fort Conger, Arctic.....	101	Gardiners Bay, N.Y.....	1243
Fort-de-France, Martinique.....	4879	Garfield, N.J.....	1411
Fort Eustis, Va.....	2315	Gargathy Neck, Va.....	1947
Fort Fremont, S.C.....	2939	Garnet Point, Maine.....	599
Fort George Island, Fla.....	3261	Garnier Bayou, Fla.....	4307
Fort George River, Fla.....	3261	Garretts Reach, N.J.....	1419, 1421
Fort Hamilton, N.Y.....	1345	Garrison Bight Channel, Fla.....	3957
Fort Jackson, Ga.....	3041	Gaskins Point, Va.....	1975
Fort Johnson, S.C.....	2705	Gasparilla Sound, Fla.....	4077
Fort Lauderdale, Fla.....	3535, 3537	Gaspe Bay, Quebec.....	373
Fort Macon, N.C.....	2457	Gay Head, Mass.....	957
Fort Matanzas, Fla.....	3351	Geiger Key, Fla.....	3937
Fort Mcallister, Ga.....	3073	General Daniel Cerri, Argentina.....	5119
Fort McHenry, Md.....	2117-2119	General Dynamics Pier, S.C.....	2725
Fort Morgan, Ala.....	4349	Georges Islands, Maine.....	681
Fort Moultrie, S.C.....	2703	Georges Shoal, Mass.....	917
Fort Myers, Fla.....	4039	Georgetown, Guyana.....	4957
Fort Pierce, Fla.....	3429, 3431	Georgetown, Fla.....	3331
Fort Pierce Inlet, Fla.....	3425, 3427	Georgetown, S.C.....	2587
Fort Point, Penobscot River, Maine.....	661	Georgetown Harbour, Prince Edward I....	423
Fort Point, Maine.....	801	Georgetown Lighthouse, S.C.....	2579
Fort Point, N.H.....	809	Georgia.....	3037-3233
Fort Pond Bay, N.Y.....	1249	Gerrish Island, Maine.....	807
Fort Popham, Maine.....	727	Gibson Island, Md.....	2121
Fort Pulaski, Ga.....	3039	Gilchrist, Texas.....	4583
Fort Schuyler, N.Y.....	1157	Gilgo Heading, N.Y.....	1285
Fort Sumter, S.C.....	2701	Gingerville Creek, South River, Md.....	2133
Fort Wadsworth, N.Y.....	1343	Glace Bay, Nova Scotia.....	463
Fortaleza, Brazil.....	5003	Glebe Pt., Va.....	2219
Forteau Bay, Labrador.....	211	Glen Cove, N.Y.....	1195
Fortescue Creek, N.J.....	1727	Gloucester Harbor, Mass.....	849
Fortune Bay, Newfoundland.....	249, 251	Gloucester Point, Va.....	2265
Foster Bay, Greenland.....	51	Goat Island, S.C.....	2563
Fowl River, Ala.....	4357, 4359	Godhavn, Greenland.....	89
Fox Channel, Arctic.....	131	Godthaab, Greenland.....	75
Foxe Basin, Arctic.....	15, 131	Golden Beach, Fla.....	3557
Franklin City, Va.....	1937	Golfo de Guacanayabo, Cuba.....	4757
Frazier Point, S.C.....	2585	Golfo Nuevo, Argentina.....	5153-5157
Frederica River, Ga.....	3159	Golfo San Jorge, Argentina.....	5173-5183
Frederica River Bridge, Ga.....	3157	Golfo San Jose, Argentina.....	5141-5145
Frederickstad, St. Croix, VI.....	4871	Golfo San Matias, Argentina.....	5137, 5139
Frederiksdal, Greenland.....	63	Gomez, South Jupiter Narrows, Fla.....	3455
Frederikshaab, Greenland.....	73	Good Hope Landing, S.C.....	3027
Freeport, N.Y.....	1305		

	No.
Goodwin Neck, Va.....	2261
Goose Bay, Labrador.....	193
Goose Creek, Md.....	2183
Goose Creek, N.J.....	1523
Goose Creek, S.C.....	2715-2719
Gooseneck Point, N.J.....	1485
Gopher Key, Fla.....	3859
Gosport Harbor, N.H.....	827
Government Cut, Fla.....	3575
Gowanus Bay, N.Y.....	1351
Grahamville, S.C.....	2639
Grand Bahamas Island.....	4701
Grand Bay, La.....	4443
Grand Bay NERR, Miss.....	4379
Grand Cayman, Jamaica.....	4791
Grand Isle, La.....	4475,4477
Grand le Pierre Harbour, Newfoundland..	249
Grand Manan Island, New Brunswick...	577,579
Grand Pass, La.....	4431
Grassy Bay (bridge), Jamaica Bay.....	1333
Grassy Key, Fla.....	3735,3737
Grassy Sound, N.J.....	1661
Grassy Sound Channel, N.J.....	1659
Graveline Bayou, Miss.....	4395
Graveling Point, N.J.....	1591
Gravelly Point, Maine.....	605
Gravesend Bay, N.Y.....	1341
Gray Gables, Mass.....	977
Great Bay, N.J.....	1585-1591
Great Chebeague Island, Maine.....	757
Great Diamond Island, Maine.....	771
Great Egg Harbor Bay, N.J.....	1625-1631
Great Egg Harbor Inlet, N.J.....	1619,1623
Great Egg Harbor River, N.J.....	1633,1635
Great Hill, Mass.....	983
Great Inagua Island, Bahamas.....	4721
Great Jervis Harbour, Newfoundland....	255
Great Kills Harbor, N.Y.....	1447
Great Machipongo Inlet, Va.....	1957
Great Pee Dee River, S.C.....	2593-2615
Great Pocket, Fla.....	3451
Great Point, Mass.....	935
Great River, N.Y.....	1277
Great St. Lawrence Hbr., Newfoundland..	245
Great Shoals Light, Md.....	2015
Great Sound, N.J.....	1653
Great South Bay, N.Y.....	1267-1287
Great Swan Island, Honduras.....	4661
Great Wicomico River, Va.....	2219
Great Wicomico River Light, Va.....	2215
Green Bank, N.J.....	1601
Green Cove Springs, Fla.....	3317
Green Harbor River, Mass.....	889
Green Island, Maine.....	621
Green Island, N.J.....	1517
Green Island, N.Y.....	1297
Greenland.....	43-99
Greenport, N.Y.....	1231
Greenwich Pier, N.J.....	1743
Greggs Landing, S.C.....	2773
Grenada, Lesser Antilles.....	4889
Grey River, Newfoundland.....	259
Greytown, Nicaragua.....	4673
Griffith Island, Arctic.....	27
Grindstone Island, New Brunswick.....	557
Grondines, Quebec.....	363
Gross Point, Maine.....	663
Grosse Ile, Quebec.....	347
Guadeloupe, Lesser Antilles.....	4875
Guanaja, Isla de, Honduras.....	4659
Guanica, P.R.....	4815
Guantanamo Bay, Cuba.....	4751
Guarapari, Brazil.....	5047
Guard Shore, Va.....	1989

	No.
Guatemala.....	4631
Guayaguayare Bay, Trinidad.....	4951
Guilford Harbor, Conn.....	1113
Guinchos Cay, Bahamas.....	4689
Gulf Beach, Conn.....	1123
Gulf Harbors, Fla.....	4163
Gulf of Paria, Venezuela.....	4929-4937
Gulf of St. Lawrence.....	285-453
Gulf Shores, Ala.....	4353
Gulfport, Fla.....	4139
Gulfport Harbor, Miss.....	4397
Guyana.....	4955,4957
Guysborough, Nova Scotia.....	475

H

Hackensack River, N.J.....	1413-1431
Haddam, Conn.....	1095
Hadlyme, Conn.....	1091
Hagley Landing, S.C.....	2619
Haig Point, S.C.....	3003
Hainesport, Rancocas Creek, N.J.....	1885
Haiti.....	4793-4801
Halfmoon, Ga.....	3103
Halfmoon Island, Fla.....	3249
Halifax, Nova Scotia * (20).....	493
Halifax River, Fla.....	3359,3365
Hall Beach, Foxe Basin.....	15
Hall Island, S.C.....	2989
Halls River, Fla.....	4185
Hamilton Inlet.....	187-191
Hamlin Creek, S.C.....	2693
Hamlin Sound, S.C.....	2689
Hammer Point, Fla.....	3655
Hammock Creek, Fla.....	4171
Hampton Harbor, N.H.....	829
Hampton River, Ga.....	3149,3151
Hampton Roads, Va.....	2281-2283
Hampton Roads, Sewells Pt, Va. * (120).	2283
Hanahan, S.C.....	2719
Handsboro, Miss.....	4403
Harbor Bay, Great Swan Island.....	4661
Harbor Channel, Fla.....	3833-3837
Harbor of Refuge, Va.....	1921
Harbor River Bridge, S.C.....	2867
Harbor River entrance, Bull Bay, S.C...	2669
Harbour Grace, Newfoundland.....	231
Hare Bay, Newfoundland.....	257
Hargray Pier, S.C.....	3021
Harkers Island, N.C.....	2433,2435
Harlem River, Randalls Island, N.Y....	1187
Harrietts Bluff, Ga.....	3213
Harrington Harbour, Quebec * (12).....	289
Harris, Fla.....	4309
Harris Neck, Ga.....	3113
Harry Tappen Marina, N.Y.....	1197
Hart Bluff, S.C.....	2861
Hashamomuck Beach, N.Y.....	1223
Hatteras, N.C.....	2421
Hatteras Inlet, N.C.....	2423
Haulover Pier, Fla.....	3567
Havana, Cuba * (248).....	4773
Haverstraw, N.Y.....	1369
Havre de Grace, Md.....	2103
Havre St. Pierre, Quebec.....	299
Hawk Channel, Fla.....	3659-3715
Hawkins Point, Md.....	2113
Hawkins Rec. Park, Fla.....	4335
Hawks Nest Anchorage, Bahamas.....	4725
Haxall, Va.....	2343
Hazzard Creek, S.C.....	2979
Heath Point, Quebec.....	303
Hebron, Hebron Fjord, Labrador.....	179
Heislerville, N.J.....	1705

	No.		No.
Hell Gate, Ward's Island, N.Y.....	1171	Howland Hook, N.Y.....	1433
Hempstead Bay, N.Y.....	1295-1315	Huckleberry Landing, Fla.....	4267
Hempstead Harbor, N.Y.....	1195,1197	Hudson, Fla.....	4169
Hendry Creek, Fla.....	4025	Hudson, N.Y.....	1389
Hereford Inlet, N.J.....	1653-1663	Hudson Creek entrance, Ga.....	3137
Hernandez Point, Fla.....	4321	Hudson Creek, Fla.....	4169
Hernando Beach, Fla.....	4173	Hudson River.....	1355-1395
Herring Bay, Md.....	2139	Hudson Strait and Bay.....	121-165
Herring Cove, New Brunswick.....	565	Huger Landing, S.C.....	2737
Hewlett Bay, N.Y.....	1313	Hull, Mass.....	881
Higganum Creek, Conn.....	1097	Hunters Point, N.Y.....	1179
High Bar, N.J.....	1551	Hunting Island, S.C.....	2865
High Island, ICWW, Texas.....	4553	Huntington Bay, N.Y.....	1207
Highlands, N.J.....	1477	Huntington Park, Va.....	2307
Highway A1A Bridge, Simpson Cr., Fla...	3257	Hunts Point, N.Y.....	1165
Highway 1 Bridge, Fla.		Huspa Creek, S.C.....	2923
Manatee Creek, Fla.....	3635	Husted Landing, N.J.....	1741
Snake Creek, Fla.....	3673	Hutchinson Island, S.C.....	2875
Tavernier Creek, Fla.....	3661	Hyannis Port, Mass.....	927
Toms Harbor Channel, Fla.....	3733	Hyde Park, N.Y.....	1381
Whale Harbor Channel, Fla.....	3679		
Highway 17 Bridge, Back River, S.C....	3047	I	
Hwy. 19 Bridge, Pithlachascotee R., Fla.	4165	I-95 Bridge, Tulifiny River, S.C.....	2995
Highway 170 Bridge, Broad River, S.C...	2977	I-295 Bridge, St. Johns River, FL.....	3307
Highway 171 Bridge, Folly Creek, S.C...	2783	I-526 Bridge, Ashley River, S.C.....	2767
Highway 704 Bridge, Palm Beach, Fla....	3501	Intracoastal Waterway.	
Hillsboro, Md.....	2049	Georgia	
Hillsboro Beach, Fla.....	3525	Mackay River.....	3163
Hillsboro Inlet, Fla.....	3527,3529,3531	Florida	
Hillsboro River, Fla.....	3523	Delray Beach.....	3513
Hillsborough Bay, Fla.....	4121,4123	Donald Ross Bridge.....	3491
Hilton Head Island, S.C.		Golden Beach.....	3557
Braddock Point.....	2997	Hillsboro Beach.....	3525
Broad Creek.....	3001	Indian Creek Golf Club.....	3571
Calibogue Cay.....	2999	Lake Worth Creek.....	3487
Port Royal Plantation.....	2931	Lake Wyman.....	3519
Skull Creek.....	2959,2961	Oak Landing.....	3337
The Folly.....	2933	Ocean Ridge.....	3511
Hingham Harbor, Mass.....	875	Pablo Creek.....	3271
Hingham, Mass.....	877	Palm Valley.....	3339
Hingham Bay, Mass.....	871-881	Peck Lake.....	3453
Hix Bridge, Mass.....	999	PGA Boulevard Bridge.....	3493
Hobcaw Point, S.C.....	2745	South Delray Beach.....	3515
Hobe Sound, Fla.....	3457,3459	South Port Everglades.....	3543
Hoffman Thorofare, N.J.....	1607	Yamato.....	3517
Hog Inlet Pier, S.C.....	2531	South Carolina	
Holland Island Bar Light, Md.....	2009	Ashepoo-Coosaw Cutoff.....	2871
Hollidays Point, Va.....	2303	Ben Sawyer Bridge.....	2699
Hollingsworth Point, Miss.....	4383	Casino Creek.....	2663
Holly Grove Plantation, S.C.....	2611	Little River (town).....	2565
Hollywood Beach, Fla.....	3551-3555	Moores Landing.....	2677
Hollywood Beach, N.J.....	1729	Myrtle Beach Airport.....	2569
Holsteinsborg, Greenland.....	81	Myrtle Beach, Combination Bridge..	2573
Homosassa Bay, Fla.....	4181	Nixon Crossroads.....	2567
Homosassa River, Fla.....	4183,4185	North Myrtle Beach.....	2571
Honduras.....	4653-4661	South Island Ferry.....	2583
Hooper Island, Md.....	2033	Igloolik, Arctic.....	13
Hooper Strait, Md.....	2029-2031	Ile aux Coudres, Quebec.....	341
Hope Creek, N.J.....	1771,1773	Ile Haute, Nova Scotia.....	537
Hope Creek, S.C.....	2853	Iles du Salut, French Guiana.....	4967
Hopedale Harbour, Labrador.....	183	Ilha de Maraca, Brazil.....	4975
Hopes Advance Bay, Ungava Bay.....	157	Ilha do Brigue, Brazil.....	4977
Hopewell, Va.....	2339	Ilhas de Sao Joao, Brazil.....	4989
Hopewell Cape, New Brunswick.....	559	Ilheus, Brazil.....	5033
Hopyard Landing, Va.....	2243	Imbituba, Brazil.....	5081
Horlbeck Creek, S.C.....	2747	Independence Island, La.....	4479
Horn Island, Miss.....	4387	Indian Creek, Fla.....	3571
Horns Hook, N.Y.....	1173	Indian Harbour, Labrador.....	187
Horseshoe Keys, Fla.....	3769	Indian Head, Md.....	2195
Horseshoe Point, Fla.....	4211	Indian Key, Fla.....	3991
Horton Bluff, Nova Scotia.....	543	Indian Key, Florida Keys, Fla.....	3689,3703
Housatonic River, Conn.....	1127-1133	Indian River, Fla.....	3395-3437
Howard Point, Maine.....	743	Indian River Inlet, Del.....	1909
Howe Key, Fla.....	3833,3839		

	No.
Indian Rocks Beach, Fla.....	4147
Indiantown, New Brunswick.....	571
Ingeniero White, Argentina.....	5117
Ingerit, Greenland.....	91
Ingonish Island, Nova Scotia.....	457
Ingram Thorofare, N.J.....	1649,1651
Inner Narrows, Snipe Keys, Fla.....	3913
Iona Shores, Fla.....	4035
Ireland Island, Bermuda.....	4683
Isaacs Harbour, Nova Scotia.....	481
Isla Bermejo, Argentina.....	5121
Isla de Culebrita, P.R.....	4825
Isla de Margarita, Venezuela.....	4925
Isla de Pintos, Cuba.....	4765
Isla de Providencia, Colombia.....	4897
Isla de Roatan, Honduras.....	4655
Isla de Vieques, P.R.....	4827,4829
Isla del Maiz Grande, Nicaragua.....	4669
Isla Escondida, Argentina.....	5161
Isla Ramon Isidro, Venezuela.....	4939
Isla Tova, Argentina.....	5179
Isla Trinidad, Argentina.....	5123,5125
Isla Zapara, Venezuela * (276).....	4911
Islamorada, Fla.....	3701
Island Beach, N.J.....	1537,1545
Isle au Haut, Maine.....	645
Isle Dernieres, La.....	4501
Isle of Hope, Ga.....	3065
Isle of Palms, S.C.....	2691-2695
Isle of Palms Pier, S.C.....	2691
Isle of Shoals, N.H.....	827
Isle of Springs, Maine.....	713
Isle of Wight Bay, Md.....	1915,1917
Itacurussa, Brazil.....	5059
Itajai, Brazil.....	5075
Ivigut, Greenland.....	71

J

Jack Bay, La.....	4441
Jack Creek, S.C.....	2673
Jackson Creek, Va.....	2247
Jackson River, Fla.....	4267
Jacksonboro Camp, S.C.....	2857
Jacksonville, Fla.....	3287,3297,3301
Jacksonville Beach, Fla.....	3335
Jacmel, Haiti.....	4811
Jacobs Wharf, S.C.....	2589
Jaffrey Point, N.H.....	805
Jamaica.....	4779-4791
Jamaica Bay, N.Y.....	1319-1337
Jamaica Beach, Texas.....	4587
James Bay, Canada.....	141-145
James Island Creek, S.C.....	2757
James River, Va.....	2305-2351
Jamestown, R.I.....	1019
Jamestown Bridge, S.C.....	2657
Jamestown Wharf, Va.....	2321
Jeddore Harbour, Nova Scotia.....	491
Jekyll Island Marina, Ga.....	3179
Jenkins Creek, S.C.....	2891,2893
Jenkins Sound, N.J.....	1657
Jennettes Pier, N.C.....	2389
Jensen Beach, Fla.....	3437
Jeremy Creek, McClellanville, S.C.....	2667
Jesters Island, Va.....	1935
Jewish Creek, Fla.....	3639
Jewish Hole, Fla.....	3717
Joggins, Nova Scotia.....	553
John F. Kennedy International Airport..	1331
Johns Bay, Maine.....	699
Johns Island, S.C.....	2831
Johns Island, Fla.....	4177
Johns Pass, Fla.....	4143

	No.
Johnson Creek, S.C.....	2865
Johnson Keys, Fla.....	3771,3773
Johnston Key, Fla.....	3887
Jointer Island, Jointer Creek, Ga.....	3181
Jones Creek, Ga.....	3151
Jones Inlet, N.Y.....	1291,1293
Jones Neck, Maine.....	695
Jordan Point, Va.....	2337
Joseph Bayou, La.....	4461
Julianehaab.....	67
Julinton River, Ga.....	3111
Julington Creek, Fla.....	3313
Jupiter, Lake Worth Creek, Fla.....	3487
Jupiter Inlet, Fla.....	3465,3467
Jupiter Island, Fla.....	3459
Jupiter Sound, south end, Fla.....	3463

K

Kangalaksiorvik Fiord, Labrador.....	173
Kap Farvel, Greenland.....	61
Kates Creek Meadow, N.J.....	1797
Kearny Point, N.J.....	1413
Keasbey, N.J.....	1453
Keewaydin island, Fla.....	4007
Kegaska, Quebec.....	293
Kemp Channel, Fla.....	3867-3873
Kenilworth Aquatic Garden, D.C.....	2207
Kennebec River, Maine.....	727-739
Kennebunkport, Maine.....	793
Kennedy Parkway, Fla.....	3383
Kent Island, Md.....	2071
Kent Island Narrows, Md.....	2069
Kent Point Marina, Md.....	2073
Kettle Creek, N.J.....	1517
Key Biscayne, Fla.....	3587
Key Colony Beach, Fla.....	3743
Key Haven, Fla.....	3953
Key Largo, Fla.....	3623-3657
Key Lois, Fla.....	3855
Key West, Fla. * (172).....	3961-3965
Keydash, Md.....	1917
Keypoint, N.J.....	1463
Keysfield, S.C.....	2633
Kiawah River Bridge, S.C.....	2801
Kickamuit River, R.I.....	1031
Kilkenny Club, Kilkenny Creek, Ga.....	3087
Kill Van Kull.....	1397,1399
Kings Bay, Fla.....	4201
Kings Bay, Ga.....	3205
Kings Ferry, Fla.....	3223
Kings Point, New York * (68).....	1191
Kingman Lake, D.C.....	2207
Kingsborough, N.Y.....	1319
Kingsley Creek, Fla.....	3233
Kingsmill, Va.....	2317
Kingston, N.Y.....	1383
Kingstown, St. Vincent.....	4885
Kinsale, Va.....	2163
Kiptopeke Beach, Va.....	1969
Kittery Point, Maine.....	811
Kitty Hawk, N.C.....	2387
Kivitoo, Baffin Island.....	113
Knight Key Channel, Knight Key, Fla....	3751
Knockemdown Key, Fla.....	3849
Koksoak River entrance.....	163
Kronprinsens Ejlanden, Greenland.....	87
Kulusuk, Greenland.....	57

L

La Argentina, Argentina.....	5145
La Coloma, Cuba.....	4767
La Guaira, Venezuela.....	4919

	No.		No.
La Have River, Nova Scotia.....	507,509	Little Pine I. Bay, Fla.....	4173
La Isabela, Cuba.....	4727	Little Pine Key, Fla.....	3791,3799
La Plata, Argentina.....	5093	Little Pottsburg Creek, Fla.....	3299
La Poile Bay, Newfoundland.....	263	Little River, Maine.....	607
La Romana, Dominican Republic.....	4805	Little River Inlet, S.C.....	2521
Labrador.....	167-211	Little River Neck, S.C.....	2527
Lafayette River, Va.....	2287	Little St. Marys River, Fla.....	3221
Laguna, Brazil.....	5083	Little Satilla River, Ga.....	3183-3187
Laird Bayou, Fla.....	4289	Little Sheepshead Creek, N.J.....	1587
Lake Boca Raton, Fla.....	3521	Little Spanish Key, Fla.....	3809
Lake Borgne, La.....	4429	Little Talbot Island, Fla.....	3259
Lake Charles, La.....	4543	Little Torch Key, Fla.....	3819,3825
Lake Forest, Fla.....	3291	Little Wicomico River, Va.....	2213
Lake Maracaibo, Venezuela.....	4911,4913	Liverpool Bay, Nova Scotia.....	511
Lake Melville, Labrador.....	187-193	Liverpool Point, Md.....	2191
Lake Montauk, N.Y.....	1245	Lloyd Harbor entrance, N.Y.....	1207
Lake Pelto, La.....	4501	Lobeco, S.C.....	2921
Lake Pontchartrain, La.....	4421,4423	Lockeport, Nova Scotia.....	513
Lake Rudee, Va.....	2379	Lockwoods Folly Inlet, N.C.....	2513
Lake Wesley, Va.....	2377	Locust Point, Fla.....	4071
Lake Worth, Fla.....	3495-3507	Lofton, Fla.....	3229
Lake Worth Creek, Fla.....	3487,3489	Lofton Creek, Fla.....	3245
Lake Worth Pier (ocean), Fla.....	3509	Loggerhead Key, Fla.....	3971
Lake Wyman, Fla.....	3519	Lonesome Bayou, La.....	4445
Lakes Bay, N.J.....	1623	Long Beach, Md.....	2143
Lameshur Bay, VI.....	4865	Long Beach, Hempstead Bay, N.Y....	1309,1311
Lanark, Fla.....	4243	Long Branch, Fla.....	3297
Lanceford Creek, Fla.....	3229	Long Branch, N.J.....	1487,1489
Lanexa, Va.....	2327	Long Creek, Va.....	2367
Largo Sound, Fla.....	3645	Long Hill, Conn.....	1131
Larrie Island, South Orkney Is.....	5223	Long Island, Bahamas.....	4695
Lauderdale-by-the-Sea, Fla.....	3533	Long Island, Maine.....	763
Leadenwah Creek, S.C.....	2813	Long Island, N.Y.....	1251-1337
Leaf Bay, Hudson Strait.....	159	Long Island Sound.....	1071-1249
Leaf Lake, Hudson Strait.....	161	Long Key, Fla.....	3719-3723
Leinster Point, VI.....	4861	Long Key, Tampa Bay, Fla.....	4141
Leipsic, Delaware.....	1755	Long Key Bight, Fla.....	3719
Leith Harbor, S. Georgia Island.....	5221	Long Key Channel, Fla.....	3723,3725
Lemon Bay, Fla.....	4081,4083	Long Key Lake, Fla.....	3721
Lenoxville Point, N.C.....	2441	Long Neck Point, Conn.....	1147
Lepreau Harbour, New Brunswick.....	573	Long Point, Fla.....	3943
Lesser Antilles.....	4845-4891	Long Point, Md.....	2003
Lester Manor, Va.....	2275	Long Reach, N.J.....	1651
L'Etang Harbour, New Brunswick.....	575	Long Sound, Fla.....	3635
Letite Harbour, New Brunswick.....	589	Longport, N.J.....	1619
Lewis Creek, Va.....	1929	Lora Point, Fla.....	4323
Lewisetta, Va.....	2159	Lostmans River, Fla.....	3981
Lighthouse Point, New Haven, Conn.....	1119	Louisburg Harbour, Nova Scotia.....	465
Lighthouse Point, La.....	4525	Louisiana.....	4417-4543
Lignumvitae Basin, Fla.....	3699	Lovango Cay, VI.....	4859
Lignumvitae Key, Fla.....	3693,3695	Love Point, Md.....	2075
Lille Pendulum, Greenland.....	47	Loveladies Harbor, N.J.....	1555
Lime Tree Bay, St. Croix * (272).....	4869	Lower Cedar Point, Md.....	2179
Limehouse Bridge, S.C.....	2797	Lower East Pubnico, Nova Scotia.....	521
Limon, Costa Rica.....	4675	Lower Hall Landing, Ala.....	4373
Lincoln Sea, Arctic.....	33-37	Lower Marlboro, Md.....	2153
Liscomb Harbour, Nova Scotia.....	485	Lower Matecumbe Key, Fla.....	3703-3709
L'Islet, Quebec.....	343	Lower New York Bay.....	1447-1467
Litchfield Beach bridge, S.C.....	2551	Lower Savage Islands, Hudson Strait....	125
Little Annessex River, Md.....	1999	Lower Sugarloaf Sound, Fla.....	3899-3911
Little Back River, Ga.....	3047	Lower Toogoodoo Creek, S.C.....	2825
Little Basin, Fla.....	3697	Lower Topsaw Landing, S.C.....	2613
Little Bull Creek, S.C.....	2627	Loxahatchee River, Fla.....	3469-3485
Little Card Sound, Fla.....	3627	Luckse Sound, Maine.....	759
Little Choptank River, Md.....	2037-2043	Lucy Point Creek, S.C.....	2895,2915
Little Creek, Va.....	2353	Ludlam Bay, N.J.....	1641
Little Deer Isle, Maine.....	643	Luis Correia, Brazil.....	4997
Little Duck Key, Fla.....	3761,3775	Lunenburg, Nova Scotia.....	505
Little Duck Key Channel.....	3775	Lyme, Highway Bridge, Conn.....	1087
Little Egg Harbor, N.J.....	1565-1583	Lynchburg Landing, Tx.....	4569
Little Egg Inlet, N.J.....	1585	Lynn, Lynn Harbor, Mass.....	853
Little Gull Island, N.Y.....	1227	Lynn Haven, Fla.....	4301
Little Hickory Island, Fla.....	4017	Lynnhaven Bay, Va.....	2359-2367
Little Manatee River, Fla.....	4109	Lynnhaven Inlet, Va.....	2357

	No.		No.
		Massacre, Dominican Republic.....	4795
		Massaponax, Va.....	2245
		Matagorda Bay, Texas.....	4603-4609
		Matamoros, Mexico.....	4631
		Matane, Quebec.....	321
		Matanzas, Cuba.....	4775
		Matanzas Inlet, Fla.....	3353
		Matanzas Pass, Fla.....	4029
		Matanzas River, Fla.....	3347-3355
		Matapeake, Md.....	2071
		Matawan Creek, N.J.....	1465
		Matecumbe Bight, Fla.....	3705
		Matecumbe Harbor, Fla.....	3707
		Mateeba Gardens, S.C.....	2773
		Mathew Town, Bahamas.....	4721
		Mathias Point, Va.....	2181
		Matinicus Harbor, Maine.....	651
		Matlacha Pass, Fla.....	4057
		Mattapoissett, Mattapoissett Hbr, Mass...	989
		Mattaponi River, Va.....	2273
		Mattituck Inlet, N.Y.....	1221
		Maurice River, Delaware Bay.....	1709-1717
		Maurice River Cove, Del.....	1707
		Mauricetown, N.J.....	1711
		Mayaguana Island, Bahamas.....	4723
		Mayaguez, P.R.....	4841
		Mayan Lake, Fla.....	3539
		Mayport, Fla. * (156).....	3267
		Mayport Naval Station.....	3263,3265
		May River, S.C.....	3011-3017
		Mayo Key, Fla.....	3797
		Mays Landing, N.J.....	1635
		McIlvaine Bay, Fla.....	4005
		McKay Bay entrance, Fla.....	4125
		Meadowville, Va.....	2347
		Meaheer State Park, Ala.....	4365
		Medomak River, Maine.....	695,697
		Medway River, Ga.....	3093
		Melbourne, Fla.....	3405
		Melville Island.....	5,7
		Memory Rock, Bahamas.....	4699
		Mendicant Island, La.....	4481
		Menantico Creek, N.J.....	1715
		Menchville, Va.....	2309
		Mercy Bay, Banks Island.....	3
		Merigomish Harbour, Nova Scotia.....	439
		Mermentau River, La.....	4537
		Merrimack River, Mass.....	831-839
		Merrimacport, Mass.....	837
		Merritt Island, Fla.....	3383,3385,3393
		Merrymeeting Bay, Maine.....	733
		Messick Point, Va.....	2279
		Metedeconk River, N.J.....	1505-1511
		Metis-sur-Mer, Quebec.....	323
		Metompkin Inlet, Va.....	1949,1951
		Mexico.....	4631-4645
		Miami, Marina, Fla.....	3579
		Miami Harbor Entrance, Fla. * (164)....	3573
		Micco, Fla.....	3409
		Michoud Substation, ICWW, La.....	4427
		Middle Bay, Maine.....	747
		Middle Narrows, Snipe Keys, Fla.....	3915
		Middle Thorofare, N.J.....	1639
		Middle Torch Key, Fla.....	3817
		Middletown, Conn.....	1101
		Midjik Bluff, New Brunswick.....	591
		Midway Inlet North, S.C.....	2553
		Miles River, Md.....	2067
		Milford Harbor, Conn.....	1125
		Mill Basin, N.Y.....	1337
		Mill Cove, Fla.....	3283
		Mill Creek, Hackensack R., N.J.....	1423
		Mill Creek, Little Egg Harbor, N.J.....	1565
		Mill Creek, Penns Neck, N.J.....	1817
M			
Mabou River entrance, Nova Scotia.....	451		
Macaes, Brazil.....	5051		
Macapá, Brazil.....	4981		
Macau, Rio Acu, Brazil.....	5009		
McClellanville, S.C.....	2667		
McCreedy's Creek, Md.....	2027		
Maceio, Brazil.....	5019		
Machadoc Creek, Va.....	2177		
Machias River, Maine.....	613		
Machias Seal Island, New Brunswick....	583		
Machiasport, Maine.....	613		
Mackay Creek, S.C.....	2963		
Mackay River, Ga.....	3161-3163		
Mackerel Cove, Maine.....	635		
Macuro, Venezuela.....	4929		
Mad Horse Creek, N.J.....	1765-1769		
Madeira Beach Causeway, Fla.....	4145		
Madero, Tampico Harbor, Mexico.....	4633		
Madison, Conn.....	1111		
Magdalen Islands, Nova Scotia.....	433		
Magens Bay, Virgin Islands.....	4849		
Magnolia Gardens, S.C.....	2771		
Magothy River, Md.....	2121,2123		
Magueyes Island, P.R. * (260).....	4813		
Mahone Bay, Nova Scotia.....	501,503		
Mahone Harbour, Nova Scotia.....	503		
Mahon River entrance, Del.....	1753		
Main Creek, Murells Inlet, S.C.....	2537		
Main Key, Fla.....	3631		
Main Marsh Thorofare, N.J.....	1605		
Maine.....	595-829		
Malapartis Creek, N.J.....	1767		
Maligiak Fjord, Greenland.....	83		
Malpeque Bay, Prince Edward Island....	413		
Manahawkin Bay, N.J.....	1557-1563		
Manahawkin Drawbridge, N.J.....	1563		
Manahawkin Creek, N.J.....	1561		
Manasquan Inlet, N.J.....	1499		
Manasquan River, N.J.....	1501,1503		
Manasota, Fla.....	4083		
Manatee Bay, Fla.....	3633		
Manatee Creek, Fla.....	3633,3635		
Manatee Pocket, Fla.....	3447		
Manatee River, Fla.....	4099,4101		
Manchester, Texas.....	4573		
Mandalay, Fla.....	4223		
Mangrove Pt., Fla.....	4189		
Manhasset Bay, N.Y.....	1193		
Manilla, La.....	4483		
Manns Harbor, N.C.....	2413		
Manokin River, Md.....	2005		
Mantoloking, N.J.....	1515		
Mantua, Mantua Creek, N.J.....	1853		
Mantua Creek, N.J.....	1851,1853		
Manumuskin River, N.J.....	1713		
Manzanillo, Cuba.....	4757		
Mar del Plata, Argentina.....	5103		
Marco, Big Marco River, Fla.....	4003		
Marco Island, Caxambas Pass, Fla.....	3997		
Marcus Hook, Pa.....	1833		
Marine Corp Recruit Depot, S.C.....	2941		
Marion, Mass.....	985		
Market Street Bridge, Pa.....	1859		
Maromas, Conn.....	1099		
Marsh Island, La.....	4523		
Marshall Hall, Md.....	2197		
Martha's Vineyard, Mass.....	943-959		
Martinique, Lesser Antilles.....	4879		
Maryland.....	1919-2211		
Mason Creek, Fla.....	4181		
Massachusetts.....	831-1057		

	No.		No.
Mill Creek, Va.....	2225	Murrells Inlet.....	2537-2549
Mill Creek, Elsinboro, N.J.....	1791	Muscongus Bay, Maine.....	689
Mill Point, Maine.....	725	Muscongus Harbor, Maine.....	691
Mills Point, Wicomic River, Md.....	2173	Muskeget Island, Mass.....	941
Millbridge, Maine.....	619	Musselboro Island, S.C.....	2873
Millenbeck, Va.....	2227	Myakka River, Fla.....	4073,4075
Millside R.R. Bridge, Del.....	1825	Myggbukta, Greenland.....	51
Millview, Fla.....	4345	Myrtle Beach, Springmaid Pier * (140)..	2533
Millville, N.J.....	1717	Mystic River, Conn.....	1071
Milton, Fla.....	4333	Mystic River, Mass.....	863
Minas Basin, Nova Scotia.....	541-549		
Mingan, Quebec.....	301	N	
Minim Creek, S.C.....	2645	Nachvak Bay, Labrador.....	175
Mink Creek, Fla.....	3247	Nacote Creek, N.J.....	1593
Miramichi Bay, New Brunswick.....	397	Nags Head, N.C.....	2389
Miramichi River, New Brunswick.....	399	Nain, Labrador.....	181
Miscou Harbour, New Brunswick.....	391	Nannaquaket Neck, R.I.....	1007
Mispillion River entrance, Del.....	1749	Nanortalik, Greenland.....	65
Mississippi.....	4379-4415	Nansemond River, Va.....	2299-2303
Mississippi River.....	4447-4463	Nantasket Beach, Mass.....	879
Mississippi Sound, Ala. and Miss..	4375-4407	Nanticoke River, Md.....	2021-2025
Missouri Key, Fla.....	3775,3777	Nantucket, Mass. * (44).....	937
Mistanoque Harbour, Quebec.....	287	Nantucket Island, Mass.....	935-941
Moa, Holguin, Cuba * (256).....	4745	Nantucket Sound, Mass.....	919-933
Mobbly Bayou, Fla.....	4135	Nantuxent Creek, N.J.....	1731,1733
Mobile, Ala * (204).....	4369	Nantuxent Cove, N.J.....	1735-1739
Mobile Bay, Ala.....	4357-4373	Naples, Fla. * (176).....	4009,4011
Mobile, Coast Guard Station, Ala.....	4367	Naples Bay, Fla.....	4009
Mobile Point, Ala.....	4349	Nariva River, Trinidad.....	4953
Mobile River, Ala.....	4369	Narragansett Bay.....	1001-1057
Mobjack, Va.....	2253	Narragansett Pier, R.I.....	1057
Mobjack Bay, Va.....	2253-2257	Narraguagus River, Maine.....	619
Moisie Bay, Quebec.....	309	Narrow Bay, N.Y.....	1263
Molasses Key Channel, Fla.....	3757	Narsarsuaq, Greenland.....	69
Moltke Harbor, South Georgia, Is.....	5219	Nassau, Bahamas.....	4705
Moncrief Creek, Fla.....	3289	Nassau River, Fla.....	3237-3251
Moncton, New Brunswick.....	561	Nassau Sound, Fla.....	3235-3257
Money Island, N.J.....	1731	Nassauville, Fla.....	3239
Money Key, Fla.....	3759	Natal, Brazil.....	5011
Money Point, Va.....	2295	Natashquan, Quebec.....	295
Monie Bay, Md.....	2015	Naufrage, Prince Edward Island.....	419
Monhegan Island, Maine.....	679	Navarre Beach, Fla.....	4311
Montauk, N.Y. * (56).....	1249	Navesink River, N.J.....	1479,1481
Montauk Harbor, N.Y.....	1247	Navy Fuel Depot, Jacksonville, Fla.....	3287
Montego Bay, Jamaica.....	4787	Neches River, Texas.....	4551
Monte Hermoso, Argentina.....	5109	Neds Creek, N.Y.....	1303
Montevideo, Uruguay.....	5087	Neil Harbour, Nova Scotia.....	455
Monument Beach, Mass.....	975	Nelson River, Greenland.....	139
Moon Head, Mass.....	869	Neponset, Neponset River, Mass.....	867
Moose Factory, Hudson Bay.....	143	Nettles Island, Fla.....	3435
Moosonee, Canada.....	141	New Bedford, Mass.....	993
Morehead City, N.C.....	2459,2461	New Bedford, N.J.....	1495
Moreland Cemetery, S.C.....	3011	New Brunswick.....	383-407,557-593
Morgan River, S.C.....	2885-2895	New Brunswick, N.J.....	1459
Morgans Point, Texas.....	4567	New Canal USCG station, La.....	4423
Moriches Inlet, N.Y.....	1259,1261	New Castle, Del.....	1819
Morro de Sao Paulo, Brazil.....	5029	New Chehaw River, S.C.....	2897
Mortier Bay, Newfoundland.....	243	New Gretna, N.J.....	1597
Mosquito Creek, S.C.....	2873	New Hamburg, N.Y.....	1377
Mosquito Lagoon, Fla.....	3367-3373	New Hampshire.....	805-829
Motts Basin, N.Y.....	1327	New Harbor, Maine.....	689
Mount Desert Island, Maine.....	627-631	New Haven Harbor, Conn.....	1121
Mount Holly, Va.....	2169	New Jersey.....	1339-1905
Mount Pleasant Plantation, S.C.....	2599	New London, Conn. * (60).....	1075
Mount Sinai Harbor, N.Y.....	1217	New Meadows River, Maine.....	741,743
Mountain Point, Md.....	2121	New Millford, N.J.....	1431
Muddy Creek entrance, Va.....	1987	New Orleans, La.....	4463
Mud River, Ga.....	3125,3129	New Port Richey, Fla.....	4167
Mullet Key Channel, Fla.....	4103	New Providence Island, Bahamas.....	4705
Mullica River, N.J.....	1593-1603	New River, Fort Lauderdale, Fla.....	3537
Mullica River Marina, N.J.....	1603	New River, S.C.....	3019-3031
Munson Island, Fla.....	3813	New River Inlet, N.C.....	2477
Murderkill River, Del.....	1751		
Murray Bay, Quebec.....	337		

	No.		No.
New Rochelle, N.Y.....	1155	Norton Point, Jamaica Bay.....	1329
New Smyrna Beach, Fl.....	3367	Norwich, Conn.....	1079
New Suffolk, N.Y.....	1239	Norwood City, Pa.....	1841
New York, East 41st Street.....	1177	Nottingham Island, Greenland.....	149
New York, East 90th Street.....	1173	Nova Scotia.....	435-555
New York Harbor.....	1339-1353	Nowell Creek, S.C.....	2749
New York State.....	1153-1467	Noyack Bay, N.Y.....	1235
New York, The Battery * (72).....	1353	Nuevitas, Cuba.....	4731
Newark Bay.....	1397-1431	Nummy Island, N.J.....	1659
Newbold, Pa.....	1897	Nunarssuag, Greenland.....	87
Newburgh, N.Y.....	1373	Nurse Channel, Bahamas.....	4717
Newburyport, Mass.....	833	Nut Island, Mass.....	871
Newcastle, Maine.....	705		
Newcastle, New Brunswick.....	399	O	
Newfound Harbor, Fla.....	3815	Oak Beach, N.Y.....	1281
Newfound Harbor Channel, Fla.....	3813,3821	Oak Bluffs, Mass.....	945
Newfoundland.....	213-283	Oak Branch, S.C.....	2809
Newman Brach, Fla.....	4117	Oaks Creek, S.C.....	2545
Newmans Thorofare, N.J.....	1589	Oak Hill, Mosquito Lagoon, Fla.....	3373
Newport, R.I. * (52).....	1015	Oak Island, N.C.....	2511
Newport Fishing Pier, Miami Beach, Fla.	3565	Oak Landing, Fla.....	3337
Newport Landing, N.J.....	1733	Oaks Creek Inlet, S.C.....	2545
Newport Meadows, N.J.....	1761	Ocohanock Creek, Va.....	1975
Newport News, Va.....	2305	Ocean Beach, N.J.....	1519
Newport River, N.C.....	2453	Ocean City, Md. * (104).....	1911-1915
Newtown Creek, N.Y.....	1179	Ocean City Beach, N.C.....	2479
Niantic, Conn.....	1081	Ocean Drive Bridge, N.J.....	1639,1643
Nickerie River, Surinam.....	4959	Ocean Reef Harbor, Key Largo, Fla.....	3629
Niles Channel, Fla.....	3841-3847	Ocean Ridge, Fla.....	3511
Nix Point, Fla.....	4343	Oceanic Bridge, N.J.....	1479
Nixon Crossroads, S.C.....	2567	Oceanographic Institution, Mass.....	963
No Name Key, Fla.....	3789	Oceanville, Maine.....	647
Nomans Land, Mass.....	955	Ocella Creek, S.C.....	2803
Nomini Creek, Va.....	2169	Ochlockonee Bay, Fla.....	4231
Norfolk, Va.....	2291	Ocracoke, N.C.....	2427
Norris Cove, Newfoundland.....	275	Ocracoke Inlet, N.C.....	2425
North Anclote Key, Fla.....	4161	Ogden Creek, N.J.....	1741
North Beach, N.J.....	1559	Ogeechee River, Ga.....	3073-3077
North Bimini, Bahamas.....	4697	O'Hara Key, Fla.....	3923
North Brother Island, N.Y.....	1167	Ohio Key, Fla.....	3777,3779
North Carolina.....	2383-2519	Ohio Key Channel, Fla.....	3777
North Carolina State Fisheries, N.C....	2469	Okatee River, S.C.....	2973
North Cat Cay, Bahamas.....	4695	Old Bic Harbour, Quebec.....	329
North Dawson Landing, S.C.....	2993	Old Bridge, N.J.....	1457
North Dewees Island, S.C.....	2683	Old Capers Landing, S.C.....	2681
North Edisto River, S.C.....	2803-2825	Old Frenchtown Wharf, Md.....	2099
North Fork, Loxahatchee River, Fla.....	3477	Old Harbor, R.I.....	1061
North Fork, St. Lucie River, Fla.....	3439	Old House Channel, N.C.....	2403
North Greenland.....	39,41	Old Orchard Beach, Maine.....	785
North Harris Channel, Fla.....	3893	Old Plantation Flats, Va.....	1971
North Haven, Maine.....	655	Old Point Comfort, Va.....	2281
North Haven Island, Maine.....	657	Old Port Tampa, Fla.....	4127
North Head, Grand Manan Island.....	577	Old Rice Mill, S.C.....	2739
North Highlands Beach, N.J.....	1683	Old Tampa Bay, Fla.....	4129-4133
North Inlet, S.C.....	2561,2563	Old Tea Kettle Creek, Ga.....	3131
North Jetty, St. Marys River, Ga.....	3203	Old Tower, Ga.....	3135
North Miami Beach, Fla.....	3565	Old Tracadie Gully ent., New Brunswick.	393
North Newport River, Ga.....	3097-3101	Old Turtle Thorofare, N.J.....	1663
North Palm Beach, Lake Worth Cr., Fla..	3495	Oldmans Creek, N.J.....	1829,1831
North Point, Md.....	2109	Onancock, Va.....	1979
North River, Mass.....	887	Onion Key, Fla.....	3983
North River Bridge, N.C.....	2443	Onset Beach, Onset Bay, Mass.....	981
North Rustico, Prince Edward Island....	415	Orange Park, Fla.....	3309
North Santee Bay, S.C.....	2643,2645	Oregon Inlet, N.C.....	2393-2401
North Santee Bridge, S.C.....	2647	Oregon Inlet Marina, N.C. * (128).....	2393
North Santee River Inlet, S.C.....	2641	Orient, N.Y.....	1229
North Star Bay, Greenland.....	93	Ormond Beach, Fla.....	3359
North Sydney, Cape Breton Island.....	461	Orsino Causeway, Fla.....	3387
Northbury, Va.....	2277	Ortega River entrance, Fla.....	3303
Northeast River, Md.....	2101	Orton Point, N.C.....	2503
Northeast River, N.C.....	2507,2509	Oslo, Fla.....	3419
Northport, Northport Bay, N.Y.....	1209	Ossabaw Sound, Ga.....	3067-3083
Northville, N.Y.....	1219	Otis Cove, Maine.....	685
Norton Point, Gravesend Bay.....	1341		

	No.		No.
Otter Island, S.C.....	2863	Pearlington, Miss.....	4415
Outer Wood Island, New Brunswick.....	581	Peck Lake, Fla.....	3453
Overstreet, Fl.....	4297	Peconic Bays, N.Y.....	1239, 1241
Oxford, Md.....	2051	Pedricktown, Oldmans Creek, N.J.....	1829
Oyster Bay, Va.....	1931	Peekskill, N.Y.....	1371
Oyster Bay, N.Y.....	1199-1203	Pelican Harbor, Bahamas.....	4703
Oyster Bay Harbor, N.Y.....	1199	Pelican Islands, La.....	4495
Oyster Bay, Bayville Bridge, N.Y.....	1201	Pelotes Island, Fla.....	3275
Oyster Creek, N.C.....	2411	Pemaquid Harbor, Maine.....	699
Oyster Creek, N.J.....	1543	Pendola Point, Fla.....	4121
Oyster Harbor, Va.....	1963	Penikese Island, Mass.....	971
Oyster landing, S.C.....	2561	Pennamquan River, Maine.....	599
Ozello, Fla.....	4187, 4191	Penniman Creek, New York.....	1257
		Penns Neck, N.J.....	1817
P		Pennsauken Creek, N.J.....	1873, 1875
Pablo Creek, Fla.....	3269, 3271	Pennsylvania.....	1833-1897
Packwood Place, Fla.....	3369	Penny Creek, south of.....	2855
Padre Island (south end), Tex. * (224).....	4621	Penny Strait, Arctic.....	31
Pagan River, Va.....	2311	Pennys Creek, S.C.....	2793, 2795
Palatka, Fla.....	3323	Penobscot Bay, Maine.....	641-675
Palm Bay, Fla.....	3407	Penobscot River, Maine.....	661-671
Palm Beach, Fla.....	3499, 3501	Penrose Ave. Bridge, Pa.....	1857
Palm Beach, Port of, Fla.....	3497	Pensacola, Fla. * (196).....	4319
Palm Valley, Fla.....	3339	Pensacola Bay, Fla.....	4315-4333
Palmetto Bluff, Fla.....	3321	Pensacola Bay entrance, Fla.....	4315
Palmyra, N.J.....	1873	Peoria Point, Fla.....	3311
Pamlico Sound, N.C.....	2419, 2421	Pepperfish Keys, Fla.....	4213
Pamunkey River, Va.....	2275-2277	Perdido Bay, Fla & Ala.....	4341-4345
Panacea, Fla.....	4233	Perdido Pass, Ala.....	4347
Panama.....	4677-4681	Perky, Fla.....	3889
Panama City, Fla.....	4283	Peters Ditch, N.C.....	2419
Panama City Beach, Fla.....	4285	Peters Point, S.C.....	2843
Panuco R., Mexico.....	4633, 4635	Petit Bois Island, Miss.....	4385
Paramaribo, Surinam.....	4963	Petit Manan Bar, Maine.....	621
Paranagua, Brazil.....	5071	Petitcodiac River, New Brunswick....	557-563
Parati, Brazil.....	5063	Pettegrove Point, Maine.....	595
Parika, British Guiana.....	4955	Pews Creek, N.J.....	1469
Paris Road Bridge, New Orleans, La.....	4465	PGA Boulevard, Fla.....	3493
Park Channel, Fla.....	3891	Philadelphia, Bridesburg, Pa.....	1871
Park Island, S.C.....	2821	Philadelphia, Pier 11, Pa.....	1865
Park Turn, Va.....	2241	Philadelphia, USCG Station * (100)....	1867
Parker, Fla.....	4287	Phippsburg, Maine.....	729
Parker Island, S.C.....	2747	Phoenix Park, Fla.....	3295
Parker Run, N.J.....	1577	Piankatank River, Va.....	2247-2249
Parris Island, S.C.....	2941	Pictou, Nova Scotia * (8).....	437
Parrsboro, Nova Scotia.....	541	Pig Point, Va.....	2299
Parsonage Creek, S.C.....	2543	Pigeon Key, Fla.....	3753, 3755
Parsonage Cove, N.Y.....	1307	Pikyulik Island.....	121
Partridge Island, Nova Scotia.....	541	Pilot Island, S.C.....	2985
Pascagoula, Miss.....	4391, 4393	Pilotown, La.....	4451
Paspebiac, Quebec.....	379	Pimlico, S.C..	2743
Pass-a-Grille Beach, Fla.....	4137	Pinckney Island, S.C.....	2963
Pass a Loutre entrance, La.....	4447	Pine Channel, Fla.....	3827-3831
Pass Christian, Miss.....	4407	Pine Channel Bridge, Fla.....	3825-3829
Passaic River, N.J.....	1405-1411	Pine Harbor, Ga.....	3123
Passamaquoddy Bay.....	591, 593	Pine Island, Fla.....	4043, 4055, 4059
Patapsco River, Md.....	2109-2119	Pine Island, N.J.....	1767
Patchogue, N.Y.....	1275	Pine Island, S.C.....	3007
Patcong Creek, N.J.....	1627	Pine Island Sound, Fla.....	4045, 4049
Patrick Air Force Base, Fla.....	3381	Pine Landing, S.C.....	2847
Patuxent River, Md.....	2147-2153	Pine Point, Maine.....	783
Paulsboro, N.J.....	1851	Pineda, Fla.....	3399
Pavonia, N.J.....	1869	Pineland, Pine Island, Fla.....	4059
Pawcatuck River, R.I.....	1069	Piney Point, Fla.....	3305
Pawtuxet, R.I.....	1041	Piney Point, Md.....	2165
Pawleys Island, S.C.....	2553-2559	Piney Point, Mass.....	987
Pawleys Island Pier, S.C.....	2557	Pirates Cove, Fla.....	3861, 3877
Pawtucket, R.I.....	1047	Piscataqua River, Maine and N.H.....	817-825
Payer Harbour, Baffin Bay.....	105	Pistolet Bay, Newfoundland.....	213
Payne River, Greenland.....	121	Pitch Landing, S.C.....	2635
Peace River, Fla.....	4069	Pithlachascotee River, Fla.....	4165, 4167
Pea Patch Island, Del.....	1815	Placentia Bay, Newfoundland.....	239-243
Peak Island, Maine.....	773	Placida, Fla.....	4077
		Plantation Key, Fla.....	3663, 3669, 3671, 3675

	No.		No.
Playa Cortada, P.R.....	4819	Port Laudania, Fla.....	3547
Playa de Fajardo, P.R.....	4837	Port Lavaca, Texas.....	4609
Playa de Ponce, P.R.....	4817	Port Leopold, Arctic.....	21
Pleasant Bay, Mass.....	915	Port Louis, Falkland Islands.....	5215
Pleasant Hill Landing, S.C.....	2655	Port Manatee, Fla.....	4105
Pleasantville, N.J.....	1623	Port Manvers, Labrador.....	177
Plumb Beach Channel, N.Y.....	1321	Port Marnham, Labrador.....	203
Plum Gut Harbor, N.Y.....	1225	Port Morant, Jamaica.....	4779
Plum Island, Mass.....	831	Port Morris, N.Y.....	1169
Plum Island Sound, Mass.....	841	Port Nelson, Hudson Bay.....	139
Plymouth, Mass.....	893	Port Newark Terminal, N.J.....	1403
Pocomoke River, Md.....	1995-1997	Port O'Connor, Texas * (220).....	4607
Pocomoke Sound, Md.....	1991,1993	Port of Spain, Trinidad.....	4945
Pocotaligo River, S.C.....	2991	Port Reading, N.J.....	1443
Point Au Fer, La.....	4513	Port Royal Plantation, S.C.....	2931
Point Barrow, Texas.....	4579	Port Royal, Jamaica.....	4781
Point Charles, Fla.....	3649	Port Royal, Va.....	2239
Point Chevreuil, La.....	4519	Port Royal, Honduras.....	4655
Point Clear, Ala.....	4361	Port Royal Sound, S.C.....	2927-2995
Point Judith Harbor of Refuge, R.I.....	1059	Port Saint Joe, Fla.....	4275
Point Lookout, Md.....	2155	Port Salerno, Fla.....	3447
Point Lookout, N.Y.....	1291,1293	Port Saunders, Newfoundland.....	279
Point No Point, Passaci River, N.J.....	1405	Port Tobacco River, Md.....	2183
Point of Pines, S.C.....	2811	Port Union, Newfoundland.....	227
Point of Pines, Miss.....	4381	Port Washington, N.Y.....	1193
Point Pinellas, Fla.....	4111	Port Wentworth, Ga.....	3045
Point St. Peter, Quebec.....	375	Portage Island, New Brunswick.....	397
Point Ybel, Fla.....	4031	Portland Head Light, Maine.....	781
Pointe-a-Pitre, Guadeloupe.....	4875	Portland, Maine * (36).....	777
Pointe aux Orignaux, Quebec.....	339	Portland Cove, Newfoundland.....	277
Pointe des Monts, Quebec.....	319	Porto Belo, Brazil.....	5077
Pointe Platon, Quebec.....	361	Portsmouth, N.H.....	815
Polaris Bugt, Greenland.....	99	Portsmouth, Va.....	2293
Polawana Island, S.C.....	2893	Portsmouth Harbor, Maine and N.H.....	805-815
Pompeston Creek, N.J.....	1879	Potomac River, D.C., Md., Va.....	2157-2211
Ponce de Leon Inlet, Fla.....	3363	Potts Harbor, Maine.....	745
Ponce Inlet, Fla.....	3365	Poughkeepsie, N.Y.....	1379
Pond Point, Md.....	2107	Presumpscot River Bridge, Maine.....	767
Ponquoque Point, New York.....	1255	Price Creek, S.C.....	2679
Ponta da Areia, Brazil.....	5027	Prince Edward Island.....	409-429
Ponta Pedreira, Brazil.....	4979	Prince Point, Maine.....	751
Poplar Island, Md.....	2061	Prince Regent Inlet.....	19,21
Poponneset Island, Poponneset Bay, Mass.....	931	Princes Bay, N.Y.....	1449
Porlamar, Venezuela.....	4925	Princess Royal Islands, Arctic.....	1
Porpoise Key, Fla.....	3793	Progreso, Mexico.....	4645
Port-au-Port, Newfoundland.....	271	Prospect Harbor, Maine.....	623
Port-au-Prince, Haiti.....	4793	Providence, R.I.....	1043
Port Arthur, Texas.....	4549	Provincetown, Mass.....	909
Port Aux Basques, Newfoundland.....	265	Prudence Island, R.I.....	1023
Port Boca Grande, Fla.....	4061	Public Landing, Md.....	1939
Port Bolivar, Texas.....	4559	Puddledock, Va.....	2337
Port Bowen, Arctic.....	19	Puerto Belgrano, Argentina.....	5115
Port Burwell, Hudson Strait.....	165	Puerto Cabezas, Nicaragua.....	4665
Port Canaveral, Fla. * (160).....	3377	Puerto Castilla, Honduras.....	4657
Port Canaveral Locks, Fla.....	3389	Puerto Colombia, Colombia.....	4905
Port Clyde, Maine.....	683	Puerto Cortes, Honduras.....	4653
Port Daniel, Quebec.....	377	Puerto de Gibara, Cuba.....	4735
Port de Boucherville, Hudson Strait.....	149	Puerto de Hierro, Venezuela.....	4931
Port Deposit, Md.....	2105	Puerto de Pilon, Cuba.....	4755
Port Eads, South Pass, La.....	4457	Puerto Deseado, Argentina.....	5187
Port Elizabeth, N.J.....	1401	Puerto Ferro, P.R.....	4827
Port Elizabeth (Manumuskin R.), N.J.....	1713	Puerto Ingeniero White * (308), Arg.....	5117
Port Everglades, Fla.....	3541,3543	Puerto Madryn, Argentina.....	5157
Port Foster, S. Shetland Islands.....	5225	Puerto Maunabo, P.R.....	4823
Port Fouchon, La.....	4487	Puerto Melo, Argentina.....	5177
Port Foulke, Greenland.....	95	Puerto Padre, Cuba.....	4733
Port George, Nova Scotia.....	535	Puerto Piramides, Argentina.....	5155
Port Hastings, Nova Scotia.....	473	Puerto Plata, Dominican Republic.....	4797
Port Hood, Nova Scotia.....	449	Puerto Real, P.R.....	4843
Port Isabel, Texas.....	4627	Puerto Rico.....	4813-4843
Port Ivory, N.Y.....	1433	Puerto Rosales, Argentina.....	5113
Port Jefferson, N.Y.....	1213	Puerto Santa Elena, Argentina.....	5169
Port Jefferson Harbor, N.Y.....	1211	Puerto San Antonio, Argentina.....	5139
Port Kennedy, Arctic.....	17	Pueyrredon, Argentina.....	5143

	No.		No.
Pugwash, Nova Scotia.....	435	Rehoboth Beach, Del.....	1907
Pulpit Harbor, Maine.....	657	Rensselaer Bugt, Greenland.....	97
Pumpkin Bay, Fla.....	3995	Resolution Island.....	123
Pumpkin Hill Creek, Fla.....	3241	Revel Creek, Revel Island, Va.....	1955
Pumpkin Key, Fla.....	3621,3881	Rhems, Black Mingo Creek, S.C.....	2601
Pungoteague Creek, Va.....	1977	Rhode Island.....	1001-1069
Punta Ancla, Argentina.....	5111	Rhode River, Md.....	2135
Punta Delgada, Argentina.....	5151	Ria Coig, Argentina.....	5199
Punta de Palmas, Venezuela.....	4915	Ribault River, Fla.....	3291
Punta Gorda, Belize.....	4649	Richibucto River ent., New Brunswick...	401
Punta Gorda, Fla.....	4067	Richmond, Va.....	2349,2351
Punta Gorda, Venezuela * (284).....	4935	Richmond Plantation, S.C.....	2733
Punta Laberinto, Argentina.....	5127	Ridgefield Park, N.J.....	1427
Punta Lobos, Argentina.....	5125	Rifkol, Greenland.....	85
Punta Loyola, Argentina * (316).....	5201	Riggins Ditch, N.J.....	1703,1705
Punta Maisi, Cuba.....	4749	Rigolet, Labrador.....	191
Punta Mulas, P.R.....	4829	The Rigolets, La.....	4417
Punta Ninfas, Argentina.....	5153	Rio Ceara (bar), Brazil.....	5001
Punta Norte, Argentina.....	5147	Rio Cunani entrance, Brazil.....	4973
Punta Norte del Cabo San Antonio.....	5101	Rio de Janeiro, Brazil * (296).....	5057
Punta Pasacaballos, Cuba.....	4761	Rio de La Plata.....	5089-5099
Punta Pena, Argentina.....	5195	Rio Dulce, Guatemala.....	4651
Punta Piedras, Argentina.....	5099	Rio Gallegos, Argentina.....	5203
Punta Quilla, Argentina.....	5197	Rio Grande (Muelle), Argentina.....	5209
Punta Rassa, Fla.....	4033	Rio Maroni entrance, French Guiana.....	4965
Punta Redonda, Argentina.....	5135	Rio Negro ent., Argentina.....	5135
Purrysburg Landing, Ga.....	3051	Rio Orinoco, Venezuela.....	4939
		Rio Para Entrance, Brazil.....	4983
		Rio San Juan, Venezuela.....	4935
		Rio Sao Francisco, Brazil.....	5021
		Riohacha, Colombia.....	4909
		Risley Channel, N.J.....	1621
		River Bend Marina, N.J.....	1633
		Riverdale, N.Y.....	1363
		Riveria Canal, Fl.....	3961
		Riverport, Nova Scotia.....	507
		Riverside, Md.....	2185
		Riviera Beach, Baffin Bay, Texas.....	4617
		Riviera Beach, N.J.....	1503
		Roane Point, Va.....	2269
		Roanoke Marshes Light, N.C.....	2409
		Roanoke Sound Channel, N.C.....	2391
		Roaring Point, Md.....	2021
		Robinhood, Maine.....	723
		Rocas, Atol das, Brazil.....	5007
		Rock Harbor, Fla.....	3651
		Rock Islands, Fla.....	4221
		Rockaway Inlet, N.Y.....	1323
		Rockdedundy River, Ga.....	3143
		Rockland, Maine.....	675
		Rockland Channel Bridge, Fla.....	3941
		Rockland Key, Fla.....	3941
		Rockport, Mass.....	847
		Rockport, Texas.....	4611
		Rockville, S.C.....	2805
		Rocky Creek, Fla.....	4173
		Rocky Hill, Conn.....	1103
		Rodanthe, N.C.....	2407
		Rollover pass, Texas.....	4581
		Romerly Marsh Creek, Ga.....	3057
		Roosevelt Roads, P.R.....	4831
		Roseau, Dominica.....	4877
		Rose Dew Creek, S.C.....	3017
		Rose Haven, Md.....	2139
		Roses Bluff, Fla.....	3227
		Rossville, N.Y.....	1441
		Round Hill Point, Mass.....	995
		Round Key, Fla.....	3993
		Round Point, Texas.....	4575
		Route 21 Bridge, Albergottie Cr., S.C...	2957
		Route 21 Bridge, Cowen Creek, S.C.....	2949
		Route 35 Bridge, Matawan Creek, N.J....	1465
		Route 47 Bridge, Big Timber Cr., N.J...	1861

Q

Quaco Bay, New Brunswick.....	567
Quantico, Va.....	2193
Quatre Bayous Pass, La.....	4471
Quebec.....	285-381
Quebec, Quebec * (16).....	353
Queen Isabella Causeway, Tx.....	4623,4625
Queensboro Bridge, N.Y.....	1175
Queenstown, Md.....	2077
Quequen, Argentina.....	5105
Quicks Hole (north side), Mass.....	967
Quinby Creek, S.C.....	2735
Quinton, N.J.....	1787
Quonset Point, R.I.....	1049

R

Rabbit Island, La.....	4521
Raccoon Creek, N.J.....	1835,1837
Raccoon Ditch, N.J.....	1761
Raccoon Key, Fla.....	3851
Raccoon Key Spit, Ga.....	3177
Raccoon Point, La.....	4505
Ragged Keys, Fla.....	3595
Ragged Point, Va.....	2167
Rahway River, RR. Bridge, N.J.....	1435
Ramrod Key, Fla.....	3815,3845
Rainbow Bridge, Texas.....	4551
Ramshorn Creek, S.C.....	3007
Rancocas Creek, N.J.....	1881-1885
Randalls Island, N.Y.....	1187
Random Head Harbour, Newfoundland.....	229
Rappahannock River, Va.....	2223-2245
Raritan Bay.....	1447-1467
Raritan River, N.J.....	1451-1459
Rattlesnake Cove, Fla.....	4253
Reaves Point, N.C.....	2499
Recife, Brazil * (292).....	5017
Red Bank, N.J.....	1481
Red Bay, Labrador.....	209
Redfish Pass, Fla.....	4053
Redfish Point, Fla.....	4101
Reed Bay, N.J.....	1609
Reedy Point, Del. * (96).....	1803
Refuge Cove, Arctic.....	29

	No.
Route 47 Bridge, Del.	
Bidwell Creek, Del.....	1689
Dennis Creek, Del.....	1695
Dias Creek, Del.....	1685
East Creek, Del.....	1697
Sluice Creek, Del.....	1693
West Creek, Del.....	1701
Route 73 Bridge, Pennsauken Cr., N.J..	1873
Route 87 Bridge, Abescon Channel, N.J..	1613
Route 130 Bridge, N.J.	
Assiscunk Creek, N.J.....	1891
Blacks Creek, N.J.....	1899
Crosswicks Creek, N.J.....	1901
Pennsauken Creek, N.J.....	1873
Route 170 Bridge, New River, S.C.....	3031
Route 206 Bridge, Crosswicks Cr., N.J..	1901
Rowayton, Conn.....	1145
Royal Bay, South Georgia Island.....	5219
Rudee Heights, Va.....	2377
Rudee Inlet, Va.....	2373-2375
Runford, R.I.....	1045
Russel Creek, S.C.....	2817
Rye Beach, N.Y.....	1155

S

Sabine Pass, Texas.....	4545-4547
Sable Island (north side), Nova Scotia.	495
Sable Island (south side), Nova Scotia.	497
Sachem Head, Conn.....	1115
Sachuest, R.I.....	1003
Saco River, Maine.....	787,789
Saddlebunch Keys, Fla.....	3905-3935
Safety Harbor, Fla.....	4133
Sag Harbor, N.Y.....	1237
Sagamore, Cape Cod Canal, Mass.....	897
Sagua de Tanamo, Bahia de, Cuba.....	4743
Saguenay River, Quebec.....	331,333
Saint John, New Brunswick * (24).....	569
St. Andrew Bay, Fla.....	4281-4303
St. Andrew Sound, Ga.....	3177-3201
St. Andrews, New Brunswick.....	593
Ste. Anne des Monts, Quebec.....	315
St. Anns Bay, Jamaica.....	4789
St. Anns Harbour, Nova Scotia.....	459
St. Augustin, Quebec.....	357
St. Augustine, Fla.....	3343
St. Augustine Beach, Fla.....	3345
St. Barbe Bay, Newfoundland.....	283
St. Barthelemy, Lesser Antilles.....	4873
St. Catherines Sound, Ga.....	3085-3129
Ste. Croix, Quebec.....	359
St. Croix Islands, Virgin Islands.	4867-4875
St. George, N.Y.....	1349
St. George Island, Fla.....	4249-4257
St. George River, Maine.....	683-687
St. George Sound, Fla.....	4239-4257
St. Georges, Del.....	1805
St. Georges Harbour, Newfoundland.....	269
St. Georges Island, Bermuda.....	4687
St. Helena Sound, S.C.....	2863-2925
St. James City, Fla.....	4043
St. James Island, Fla.....	4235,4237
St. John Bay, Newfoundland.....	281
St. John River, New Brunswick.....	571
St. John's, Newfoundland.....	233
St. Johns Island, VI.....	4859-4865
St. Johns River, Fla.....	3263-3331
St. Joseph Bay, Fla.....	4275-4279
St. Joseph Sound, Fla.....	4153
St. Laurent d'Orleans, Quebec.....	351
St. Lawrence River.....	315-371
St. Louis Bay, Miss.....	4411
St. Lucia, Lesser Antilles.....	4881,4883

	No.
St. Lucie, Fla.....	3421
St. Lucie River, Fla.....	3439-3445
St. Margarets Bay, Nova Scotia.....	499
St. Marks, Fla.....	4227
St. Marks River Entrance, Fla. * (188).	4225
St. Martins River, Fla.....	4187
St. Mary Bay, Newfoundland.....	237
St. Mary Bay, Nova Scotia.....	525-529
St. Mary Harbour, Newfoundland.....	237
St. Mary River, Nova Scotia.....	483
St. Marys, Ga.....	3215
St. Marys Entrance, Ga.....	3203
St. Marys River, Ga. and Fla.....	3215-3223
St. Michaels, San Domingo Creek, Md....	2057
St. Michaels, Miles River, Md.....	2067
St. Nicolaas Bay, Aruba.....	4895
St. Nicolas, Quebec.....	355
St. Paul Island, Nova Scotia.....	431
St. Peter Bay, Cape Breton Island.....	469
St. Peters Bay, Prince Edward Island...	417
St. Petersburg, Fla. * (180).....	4113
St. Pierre Creek, S.C.....	2843
St. Pierre Harbor, Newfoundland.....	247
St. Simons Light, Ga.....	3155
St. Simons Sound, Ga.....	3153-3175
St. Simons Sound Bar, Ga.....	3153
St. Thomas Island, Virgin Islands.	4845-4857
St. Vincent, Lesser Antilles.....	4885
St. Vincent Sound, Fla.....	4273
Sakonnet, R.I.....	1001
Sakonnet River, R.I.....	1001-1011
Salem, Mass.....	851
Salem, N.J.....	1795
Salem Canal entrance, N.J.....	1821
Salem Nuclear Plant, N.J.....	1777
Salem River, N.J.....	1793-1801
Salinopolis, Brazil.....	4985
Salisbury, Md.....	2019
Salisbury, New Brunswick.....	563
Salisbury Point, Mass.....	835
Salmon Falls River, N.H.....	823
Salt River, Fla.....	4193
Salt Water Creek, S.C.....	3035
Salvador, Brazil.....	5025
Salvesborg Landing, S.C.....	2983
Sam Worth Game Management Area, S.C....	2607
Sampit River, S.C.....	2587-2591
San Carlos Bay, Fla.....	4031,4033
San Domingo Creek, Md.....	2057
San Jacinto River, Tx.....	4569,4571
San Juan, P.R. * (264).....	4839
San Juan del Norte, Nicaragua.....	4673
San Luis Pass, Texas.....	4595
San Marino Island, Fla.....	3577
San Roman, Argentina.....	5141
San Salvador, Bahamas.....	4713
Sanchez, Dominican Republic.....	4801
Sand Key Lighthouse, Fla.....	3967
Sand Key Channel, Fla.....	3967
Sand Shoal Inlet, Va.....	1961
Sandblasters, S.C.....	2795
Sandbridge, Va.....	2381
Sands Key, Fla.....	3599
Sandy Hook, N.J. * (84).....	1475
Sandy Point, Maine.....	669
Santa Barbara de Samana, Dominican Rep.	4799
Santa Cruz Cabralia, Brazil.....	5037
Santa Cruz (Punta Quilla), Argentina...	5197
Santa Domingo, Dominican Republic.....	4807
Santa Elena, Puerto, Argentina.....	5169
Santa Marta, Colombia.....	4907
Santa Rosa Sound, Fla.....	4313
Santana, Recifes de, Brazil.....	4993
Santee Pass, S.C.....	2681

	No.		No.
Santee River, S.C.....	2655,2657	Sharkfin Shoal Light, Md.....	2013
Santiago de Cuba, Cuba * (252).....	4753	Sharptown, Md.....	2025
Santos, Brazil * (300).....	5067	Shediac Bay, New Brunswick.....	403
Sao Francisco do Sul, Brazil.....	5073	Sheepshead Bay, N.Y.....	1319
Sao Joao da Barra, Brazil.....	5069	Sheepscot, Maine.....	719
Sao Luiz, Brazil.....	4991	Sheepscot River, Maine.....	713-725
Sao Sebastiao, Brazil.....	5065	Sheet Harbour, Nova Scotia.....	487
Saona, Isla, Dominican Republic.....	4803	Sheild Point, Fla.....	4331
Sapelo Island, Ga.....	3135	Shelburne, Nova Scotia.....	515
Sapelo River, Ga.....	3119-3123	Sheldon, S.C.....	2923
Sapelo Sound, Ga.....	3085-3129	Shell Beach, Lake Borgne, La.....	4429
Saquatucket Harbor.....	919	Shell Island, Fla.....	4197
Sarasota, Fla.....	4089	Shell Island, La.....	4515
Sarasota Bay, Fla.....	4089,4091	Shell Key, Fla.....	3691,3699
Sargent, Texas.....	4601	Shell Point, Apalachee Bay, Fla.....	4229
Sasanoa River, Maine.....	723,725	Shell Point, N.C.....	2433
Sassafras River, Md.....	2095	Shell Point, Peace River, Fla.....	4069
Satilla River, Ga.....	3191-3197	Shell Point, Tampa Bay, Fla.....	4107
Saugatuck, Saugatuck River, Conn.....	1141	Shelltown, Md.....	1995
Saunders Wharf, Va.....	2237	Shelter Island Sound, N.Y.....	1229-1237
Savage Creek, S.C.....	3009	Shelton, Conn.....	1133
Savage Island, S.C.....	3009	Shem Creek, S.C.....	2707
Savannah, Ga.....	3043	Sherwood Forest, Fla.....	3293
Savannah River, Ga.....	3037-3051	Shinnecock Bay, N.Y.....	1253-1257
Savannah River Entrance, Ga. * (148)...	3039	Shinnecock Inlet, N.Y.....	1251
Sawpit Creek, Fla.....	3253,3255	Ship Cove, Newfoundland.....	253
Sawyer Key, Fla.....	3883,3885	Ship Island, Miss.....	4389
Saxis, Va.....	1991	Ship Harbour, Nova Scotia.....	489
Saybrook Jetty, Conn.....	1083	Ship Shoal Light, La.....	4509
Saybrook Point, Conn.....	1085	Shipyards Creek, S.C.....	2711
Sayreville, N.J.....	1455	Shooting Thorofare, N.J.....	1585
Scarborough River, Maine.....	783	Shoppee Point, Maine.....	615
Scarborough, Tobago.....	4891	Shrewsbury River, N.J.....	1477-1487
Schooner Bay, Va.....	1981	Sigsbee Park, Fla.....	3957
Schooner Harbour, Baffin Island.....	129	Sikes Cut, Fla.....	4257
Schottgat, Curacao.....	4893	Silver Bay, Silver Bay Marina, N.J....	1521
Schuylkill River, Pa.....	1857,1859	Silver Eel Pond, Fishers Island, N.Y...	1073
Scituate, Mass.....	885	Silver Lake Fork, N.J.....	1769
Scoresbay Sound, Greenland.....	55	Similar Sound, Fla.....	3931-3935
Scotia Bay, S. Orkney Islands.....	5223	Simpson Creek, Fla.....	3257
Scotland, Va.....	2319	Sinepuxent Neck, Md.....	1943
Scott Creek, S.C.....	2841	Sinnickson Landing, N.J.....	1793
Sea Bright, Shrewsbury River, N.J.....	1483	Sippican Harbor, Mass.....	985
Sea Grape Point, Fla.....	3609	Sisters Creek, Fla.....	3273
S.C.L. RR. bridge, Savannah River, Ga..	3049	Six Mile Lake, La.....	4517
Seabrook, S.C.....	2869	Skidaway River, Ga.....	3065
Seacamp Dock, Ga.....	3209	Skull Creek, S.C.....	2959,2961
Seal Cove, New Brunswick.....	579	Slaughter Creek, Md.....	2039
Seapoint, Maine.....	803	Sloop Creek, N.J.....	1533
Seaside Heights, N.J.....	1513	Sluice Creek, N.J.....	1693
Seaside Park, N.J.....	1529	Smith Creek, Fla.....	3357
Seavey Island, Maine.....	813	Smith Island, Va.....	1965
Seaview Ferry Dock, N.Y.....	1273	Smith Point Bridge, N.Y.....	1263
Sebastian, Fla.....	3413	Smith Shoal Light, Fla.....	3973
Sebastian Inlet, Fla.....	3411	Smith's Dock, S.C.....	2541
Secaucus, N.J.....	1421	Smithfield, Va.....	2311
Secessionville, Secessionville Cr., S.C.	2777	Smithville, Md.....	2037
Sedge Islands, N.J.....	1545	Snake Creek, Fla.....	3673,3675
Seekonk River, R.I.....	1045,1047	Snake Island, S.C.....	2787
Seminole Shores, Fla.....	3449	Sniffens Pt., Housatonic River, Conn...	1127
Sept Iles, Quebec.....	311	Snipe Keys, Fla.....	3913-3917
Sesuit Harbor, Mass.....	905	Snipe Point, Fla.....	3917
Settlement Point, Bahamas * (240).....	4701	Snow Hill (city park), Md.....	1997
Seven Island, N.J.....	1589	Snow Point, S.C.....	2723
Seyern River, Md.....	2125,2127	Socastee Bridge, S.C.....	2575
Sewall Point, Fla.....	3445	Soldier Key, Fla.....	3593
Sewee Bay, S.C.....	2677	Solomons Island, Md.....	2147
Sewells Point, Va.....	2283	Sombbrero Key, Fla.....	3749
Shalimar, Fla.....	4307	Sondre Stromfjord, Greenland.....	77,79
Shallotte Inlet, N.C.....	2515	Sonora, Nova Scotia.....	483
Shark Key, Fla.....	3933	Sops Island, Newfoundland.....	219
Shark River entrance, Fla.....	3977	Sorry Harbor.....	123
Shark River Hills, N.J.....	1493	Souris Head, Prince Edward Island.....	421
Shark River Island, N.J.....	1491	South Altamaha River, Ga.....	3147

	No.
South Amboy, N.J.....	1451
South America.....	4897-5213
South Ashley Bridge, S.C.....	2761
South Atlantic Ocean Islands.....	5215-5225
South Bay, Tx.....	4629
South Brunswick River, Ga.....	3175
South Carolina.....	2521-3035
South Carrabelle Beach, Fla.....	4247
South Delray Beach, Fla.....	3515
South Edisto River, S.C.....	2837-2861
South Fork, St. Lucie River, Fla.....	3443
South Freeport, Maine.....	749
South Georgia Island.....	5219,5221
South Harpswell, Maine.....	745
South Hartford, Conn.....	1105
South Is. Plantation, S.C.....	2581
South Is. Ferry, S.C.....	2583
South Jamesport, N.Y.....	1241
South Jetty, Winyah Bay Entr., S.C.....	2577
South Jupiter Narrows, Fla.....	3455
South Negril Point, Jamaica.....	4785
South Newport Cut, Ga.....	3101
South Newport River, Ga.....	3105-3109
South Norwalk, Conn.....	1143
South Orkney Islands.....	5223
South Oyster Bay, N.Y.....	1289
South Pass, La. * (208).....	4455
South Point, Marsh Island, La.....	4523
South Point, Sinepuxent Neck, Md.....	1943
South River, Md.....	2131,2133
South River, N.J.....	1457
South Santee River, S.C.....	2649-2653
South Shetland Islands.....	5225,5227
South Sound, Fla.....	3647
South Yarmouth, Mass.....	925
Southeast Pass, Mississippi River, La..	4453
Southampton Island, Greenland.....	133
Southold, N.Y.....	1233
Southport, Conn.....	1139
Southport, Maine.....	711
Southport, N.C.....	2491
SW Fork, Loxahatchee River, Fla... 3483,	3485
Southwest Harbor, Maine.....	629
Southwest Pass, Mississippi River, La..	4459
Southwest Pass, Vermilion Bay, La.....	4529
Southwest Point, Quebec.....	305
Spanish Banks, Fla.....	3809
Spanish Harbor, Fla.....	3783
Spencer Island, Nova Scotia.....	539
Spicer Cove, Nova Scotia.....	551
Spooner Creek, N.C.....	2473
Spring Bluff, Ga.....	3187
Spring Warrior Creek, Fla.....	4219
Springmaid Pier, S.C.....	2533
Spuyten Duyvil Creek, N.Y.....	1361
Squamscott River, N.H.....	825
Square Island Harbour, Labrador.....	201
Squibnocket Point, Mass.....	953
Stage Harbor, Mass.....	911
Stamford, Conn.....	1149
Stanley Harbor, Falkland Islands.....	5217
Staten Island, N.Y.....	1347-1401
Stathems Neck, N.J.....	1757
Station Creek, S.C.....	2935,2937
Stables Bay, Trinidad.....	4941
Steamboat Creek Landing, S.C.....	2815
Steelmanville, N.J.....	1627
Steele Harbor Island, Maine.....	617
Steep Brook, Mass.....	1035
Steinhatchee River, Fla.....	4215
Stites Sound, N.J.....	1647
Stock Island, Fla.....	3953
Stone Harbor, N.J.....	1655
Stone Island, Maine.....	611

	No.
Stonington, Maine.....	649
Stono River, S.C.....	2787-2799
Stony Creek, Md.....	2111
Stony Point, N.Y.....	1169
Stouts Creek, N.J.....	1539
Stouts Pass, La.....	4517
Stow Creek, N.J.....	1757-1763
Strait of Belle Isle.....	207-211
Strait of Canso, Nova Scotia.....	473
Stratford, Conn.....	1129
Strathmere, Strathmere Bay, N.J.....	1637
Stuart, Fla.....	3441
Stupart Bay.....	153
Sturgeon Island, Maine.....	733
Sturgeon Point, Va.....	2333
Sugarloaf Beach (inside), Fla.....	3901
Sugarloaf Key, Fla..... 3857,3861,3875,	3879
Sugarloaf Shores, Fla..... 3895,3899,	3903
Sullivans Island, S.C.....	2697
Summerhouse Point, S.C.....	2911
Summerland Key, Fla..... 3841,3843,	3865
Summerside Harbour, Prince Edward I....	429
Summit Bridge, Del.....	1807
Sunbury, Ga.....	3093
Sunglow Pier, Fla.....	3361
Sunnybank, Va.....	2213
Sunny Isles, Biscayne Creek, Fla.....	3561
Sunny Point Army Base, N.C.....	2497,2501
Sunset Beach, Cape May, N.J.....	1679
Sunset Beach, Del. River, N.J.....	1863
Sunset Beach, N.C.....	2517,2519
Sunset Cove, Fla.....	3653
Sunset Lake, N.J.....	1669
Surinam.....	4959-4963
Suriname River Entrance * (288).....	4961
Susquehanna River, Md.....	2103,2105
Sutherlands Still, Fla.....	3325
Suwannee, Fla.....	4209
Suwannee River, Fla.....	4207
Swain Channel, N.J.....	1667
Swan Creek, Md.....	2089
Swans Island, Maine.....	639
Swedesboro, N.J.....	1837
Sweetwater, N.J.....	1603
Swim Point, Nova Scotia.....	519
Sykes Creek, Fla.....	3391
Sylvan Glen, N.J.....	1901

T

Tacony-Palmyra Bridge, N.J.....	1877
Tadoussac, Quebec.....	331
Tall Pines Camp, N.J.....	1511
Tambau, Brazil.....	5015
Tampa Bay, Fla.....	4093-4145
Tampico Harbor, Mexico * (228).....	4633
Tangier Island, Va.....	1985
Tappahannock, Va.....	2235
Tarpon Bay, Fla.....	4041
Tarpon Creek, Fla.....	3857,3897
Tarpon Springs, Fla.....	4159
Tarrytown, N.Y.....	1367
Taunton River, Mass.....	1035
Tavernier, Fla.....	3657-3661
Taylor Sound, N.J.....	1667
Taylor's Bridge, Del.....	1775
Taylor's Island, Md.....	2039
Tchefuncta River, La.....	4421
Teague Creek, Md.....	2005
Tenants Harbor, Maine.....	677
Tensaw River, Ala.....	4373
Tequesta, Fla.....	3471-3475
Terrebonne Bay, La.....	4497,4499
Tettington, VA.....	2331

	No.		No.
Texas.....	4545-4629	Tuckerton Creek, N.J.....	1579, 1581
Texas City, Texas.....	4561	Tue Marshes Light, Va.....	2259
Texas Gas Platform, La.....	4507	Tulifiny River, S.C.....	2995
Thames River, Conn.....	1075-1079	Turbo, Colombia.....	4899
Thank God Harbor, Greenland.....	99	Turkey Basin, Fla.....	3887
The Bight, Cat Island, Bahamas.....	4711	Turkey Creek, S.C.....	2719
The Battery, N.Y.....	1353	Turkey Creek, Miss.....	4401
The Cove, Charleston Harbor, S.C.....	2703	Turkey Point, Apalachee Bay, Fla.....	4237
The Folly, S.C.....	2933	Turkey Point, Biscayne Bay, Fla.....	3605
The Glades, Del.....	1729	Turkey Point, Hudson River, NY.....	1385
The Glen, R.I.....	1005	Turks Island, Bahamas.....	4725
The Narrows, Harris, Fla.....	4309	Turnbridge Landing, S.C.....	3035
The Narrows, N.Y.....	1343, 1345	Turning Basin, Port Everglades, Fla....	3541
Thomas Landing, Ga.....	3107	Turning Basin, Texas City, Texas.....	4561
Thomas Point Shoal Light, Md.....	2129	Turtle Bay, Fla.....	4065
Thomasin, La.....	4445	Turtle Cove, N.J.....	1609
Thomaston, Maine.....	687	Turtle River, Ga.....	3167-3173
Thoroughfare Creek, S.C.....	2621	Turtle Mound, Fla.....	3371
Threemile Cut, Ga.....	3139	Tutoia, Baia da, Brazil.....	4995
Threemile Harbor entrance, N.Y.....	1243	Tuxpan, Mexico.....	4635
Throgs Neck, N.Y.....	1157	Twin Rivers Marina, Fla.....	4199
Thunderbolt, Ga.....	3061	Tybee Creek, Ga.....	3053
Ticoralak Island, Labrador.....	189	Tybee Light, Ga.....	3037
Tidnish Head, New Brunswick.....	407	Tylerville, Conn.....	1093
Tierra Del Fuego.....	5207-5213		
Tiger Point, Fla.....	3241	U	
Tignish, Prince Edward Island.....	409	Umananak Fjord, Greenland.....	91
Tilghman Island, Md.....	2061	Umbrella Point, Texas.....	4577
Timbalier Bay, La.....	4491-4495	Uncatena Island, Mass.....	965
Timbalier Island, La.....	4491, 4493	Ungava Bay, Canada.....	159-165
Timmons River, Ga.....	3103	Union City, N.J.....	1355
Tinicum Nat. Wildlife Refuge, Pa..	1843-1847	Union River, Maine.....	637
Titusville, Fla.....	3395	Upper Machodoc Creek, Va.....	2177
Tiverton, Nova Scotia.....	527	Upper Matecumbe Key, Fl. 3681, 3687, 3697,	3701
Tivoli, N.Y.....	1387	Upper Sugarloaf Sound, Fla.....	3889-3897
Tocoi, Fla.....	3319	Upshur Neck, Va.....	1959
Todd Creek, Ga.....	3191	Urbanna, Va.....	2229
Tolchester, Md.....	2091	Uruguay.....	5087, 5089
Tolomato River, Fla.....	3341	U.S. Hwy 9 Bridge, Nacote Creek, N.J...	1593
Tom Point Creek, S.C.....	2821	U.S. Hwy 30 Bridge, Abescon Creek, N.J.	1611
Toms Cove, Assateague Beach, Md.....	1919	US Coast Guard Station	
Toms Harbor, Fla.....	3729	Chincoteague Island, Va.....	1927
Toms Harbor Channel, Fla.....	3733	Fort Macon, N.C.....	2457
Toms Harbor Cut, Fla.....	3727	Hillsboro Inlet, Fla.....	3527
Toms River, N.J.....	1527	Indian River Inlet, Del.....	1909
Toogoodoo Creek, S.C.....	2823	Manasquan Inlet, N.J.....	1499
Torch Channel, Fla.....	3819	Oregon Inlet, N.C.....	2397
Torch Ramrod Channel, Fla.....	3817	Sand Shoal Inlet, Va.....	1961
Totten Key, Fla.....	3615	Smith Island, Va.....	1965
Town Point, Va.....	2301	South Island Plantation, S.C.....	2581
Town Point Wharf, Md.....	2097		
Townsend Gut, Maine.....	711	V	
Townsend Sound, N.J.....	1645	VAB Turning Basin, Fla.....	3385
Townsend Inlet, N.J.....	1643-1651	Vaca Key, Fla.....	3741
Tracadie, New Brunswick.....	395	Vaca Key, USCG Station, Fla * (168)....	3745
Travis Point, Va.....	2161	Vaill Island, Maine.....	761
Tred Avon River, Md.....	2051, 2053	Valleyfield, Newfoundland.....	225
Trenchards Inlet, S.C.....	2927, 2929	Venezuela.....	4911-4939
Trenton, N.J.....	1905	Venice, La.....	4449
Trepassey Harbour, Newfoundland.....	235	Venice Inlet, Fla.....	4087
Trinidad.....	4941-4953	Venice Airport, Fla.....	4085
Trinity Bay, Newfoundland.....	229	Ventnor City, N.J.....	1617
Trinity Bay, Texas.....	4575-4579	Veracruz, Mexico.....	4637
Triple ESS Marina, N.C.....	2465	Vermilion Bay, La.....	4529-4533
Trois Rivieres, Quebec.....	371	Vernon View, Ga.....	3069
Tropical Homesites Landing, Fla.....	4055	Vero Beach, Fla.....	3417
Trout River, Fla.....	3289-3293	Vero Beach (ocean), Fla.....	3423
Troy, N.Y.....	1395	Vienna, Md.....	2023
Truro, Nova Scotia.....	549	Vieux Fort Bay, St. Lucia.....	4883
Tuckahoe, N.J.....	1629	Vilano Beach, Fla.....	3341
Tuckahoe Creek, Md.....	2049	Village Creek Cementery, S.C.....	2887
Tuckahoe River, N.J.....	1629, 1631	Village Creek Entrance, S.C.....	2885
Tuckers Island, Fla.....	4183		
Tuckerton, Tuckerton Creek, N.J.....	1581		

	No.
Vinalhaven, Maine.....	653
Vineyard Haven, Mass.....	943
Vineyard Sound.....	961-969
Virgin Islands.....	4845-4895
Virginia.....	1919-2381
Virginia Beach, Va.....	2371
Virginia Key, Fla.....	3585
Vitoria, Brazil.....	5045

W

Waackaack Creek, N.J.....	1467
Wabasso, Fla.....	3415
Waccamaw River, S.C.....	2617-2639
Wachapreague Channel, Va.....	1953
Wachesaw Landing, S.C.....	2623
Wading River, N.J.....	1599
Wadmalaw River, S.C.....	2827-2833
Wakeham Bay, Hudson Strait.....	151
Wakema, Va.....	2273
Walburg Creek, Ga.....	3085
Waldoboro, Maine.....	697
Wallabout Bay, N.Y.....	1183
Wallops Island, Va.....	1945
Walpole, Maine.....	703
Waltz Key, Fla.....	3919
Waltz Key Basin, Fla.....	3919-3923
Wanamaker Bridge, Pa.....	1839
Wando River, S.C.....	2745-2755
Wapitagan Harbour, Quebec.....	291
Wappoo Creek, S.C.....	2759
Ward's Dock, S.C.....	2559
Wards Island, N.Y.....	1171
Wares Wharf, Va.....	2233
Waretown, N.J.....	1547
Warrington, Fla.....	4317
Washington, D.C. * (112).....	2203
Washington Channel, D.C.....	2203
Washington Navy Yard, D.C.....	2205
Wasque Point, Mass.....	949
Wassaw Sound, Ga.....	3053-3065
Watch Hill Point, R.I.....	1067
Watchogue Creek, N.Y.....	1279
Water Bay, St. Thomas, VI.....	4851
Water Key, Fla.....	3795
Water Keys, Fla.....	3837
Watts Island, Va.....	1983
Waveland, Miss.....	4413
Webeck Harbour, Labrador.....	185
Webhannet River, Maine.....	795
Wednesday Point, Fla.....	3623
Weehawken, N.J.....	1355
Weekapaug Point, R.I.....	1065
Weeks Bay, La.....	4533
Weir Creek, N.J.....	1721
Weir River, Mass.....	879
Welaka, Fla.....	3329
Wellfleet, Mass.....	907
Wellington Channel, Artic.....	29
Wells, Maine.....	795
Welshpool, New Brunswick.....	585
West Bahia Honda Key, Fla.....	3767
West Bay Creek, Fla.....	4303
West Bay, Texas.....	4587,4589
West Branch, Boyds Creek, S.C.....	2983,2985
West Branch, Cooper River, S.C....	2741,2743
West Cote Blanche Bay, La.....	4527
West Creek, N.J.....	1699,1701
West Creek, Westecunk Creek, N.J.....	1575
West Falmouth Harbor, Mass.....	973
West Fire Island, N.Y.....	1271
West Lake, Fla.....	3551,3553
West Mystic, Conn.....	1071
West Palm Beach Canal, Fla.....	3503

	No.
West Point, Va.....	2271
West River, Md.....	2137
West Wildwood, N.J.....	1661
Westbrook, Duck I. Roads, Conn.....	1107
Westecunk Creek, N.J.....	1573,1575
Westerly, Pawcatuck River, R.I.....	1069
Western Branch, Va.....	2289
Westport, Nova Scotia.....	525
Westport Harbor, Mass.....	997
Westport River, Mass.....	997,999
Westville, N.J.....	1861
Wetappo Creek, Fla.....	4295
Weymouth, Nova Scotia.....	529
Weymouth Fore River Bridge.....	873
Weymouth Plantation, S.C.....	2603
Whale Branch, S.C.....	2919-2923
Whale Harbor, Fla.....	3677,3679
Wharf Creek, S.C.....	2675
Whiskey Creek, Fla.....	3545,3549
White Bay, Newfoundland.....	219
White Beach, Fla.....	4261
White City, Fla.....	4279
Whitehaven, Md.....	2017
Whitehaven Harbour, Nova Scotia.....	479
Whitestone, N.Y.....	1159
Whitewater Bay, Fla.....	3979
Whiting Bay, Maine.....	603,605
Wickford, R.I.....	1053
Wicomico River, Md.....	2017,2019
Wicomico River, Potomac River.....	2173
Wiggins, S.C.....	2899
Wiggins Pass, Fla.....	4013
Wild Cove, Newfoundland.....	217
Wildwood Crest, N.J.....	1665,1669
Willcox Wharf, Va.....	2335
Willetts Point, N.Y.	1189
William Brooks Park, Ala.....	4371
Williams Harbour, Labrador.....	169
Williams Point, Fla.....	3397
Williamsburg Bridge, N.Y.....	1181
Willtown Bluff, S.C.....	2851
Wilmington Beach, N.C.....	2481
Wilmington Marine Terminal, Del.....	1823
Wilmington, N.C. * (136).....	2505
Wilmington River, Ga.....	3059-3063
Wilson Cove, Maine.....	747
Wilson's Beach, New Brunswick.....	587
Wimbee Creek, S.C.....	2913
Windley Key, Fla.....	3673,3677,3679
Windmill Point, Rappahannock River, Va.	2223
Windmill Point Light, Va.....	2221
Windsor, Nova Scotia.....	545
Windsor Plantation, N. Edisto R., S.C..	2817
Windsor Plantation, Black R., S.C.....	2593
Wine Island, La.....	4497
Winea Plantation, S.C.....	2597
Winslow Farms, N.J.....	1799
Winter Harbor, Maine.....	625
Winter Harbour, Melville Island.....	5
Winter Island, Fox Channel.....	131
Winterport, Maine.....	667
Winyah Bay, S.C.....	2577-2699
Winyah Bay Entrance, S.C.....	2577
Wiscasset, Maine.....	717
Wishart Point, Va.....	1925
Withlacoochee River entrance, Fla.....	4203
Wolf Island, Ga.....	3145
Wolf River, Miss.....	4409
Wolf Trap Light, Va.....	2251
Wolstenholme Fjord, Greenland.....	93
Woodbridge Creek, N.J.....	1445
Woodbury Creek, N.J.....	1855
Woodland Beach, Del.....	1759
Woodlawn Beach, Fla.....	4337

	No.
Woodmere, N.Y.....	1315
Woods Hole, Mass.....	961-969
Woods Hole Oceanographic Inst. * (48)..	963
Woodville, S.C.....	2755
Woody Island, Newfoundland.....	241
Woolford, Md.....	2041
Worlds Fair Marina, N.Y.....	1163
Worton Creek, Md.....	2093
Wrightsville Beach, N.C.....	2481
Wright Island Landing, Va.....	2325
Wright River, S.C.....	3033
Wychmere Harbor, Mass.....	921

Y

Yale, Conn.....	1077
Yamato, Fla.....	3517
Yarmouth Harbour, Nova Scotia.....	523
Yauhannah Bridge, S.C.....	2615
Yeaman's Hall, S.C.....	2717
Yeocomico River, Va.....	2163
Yonges Island, S.C.....	2829
York Harbor, Maine.....	799,801
York River, Va.....	2259-2277
Yorktown, Va.....	2261,2263

Z

Zekes Island, N.C.....	2493
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ASTRONOMICAL DATA, 2020

January			
	d	h	m
A	2	02	..
☉	3	04	45
E	3	05	..
N	10	07	..
☽	10	19	21
P	13	20	..
E	16	13	..
☉	17	12	58
S	23	04	..
●	24	21	42
A	29	21	..
E	30	13	..

February			
	d	h	m
☉	2	01	42
N	6	17	..
☽	9	07	33
P	10	20	..
E	12	19	..
☉	15	22	17
S	19	09	..
●	23	15	32
A	26	12	..
E	26	19	..

March			
	d	h	m
☉	2	19	57
N	5	02	..
☽	9	17	48
P	10	06	..
E	11	05	..
☉	16	09	34
S	17	15	..
☽ _m	20	03	50
●	24	09	28
A	24	15	..
E	25	01	..

April			
	d	h	m
N	1	10	..
☉	1	10	21
E	7	16	..
P	7	18	..
☽	8	02	35
S	13	21	..
☉	14	22	56
A	20	19	..
E	21	07	..
●	23	02	26
N	28	16	..
☉	30	20	38

May			
	d	h	m
E	5	02	..
P	6	03	..
☽	7	10	45
S	11	07	..
☉	14	14	03
A	18	08	..
E	18	14	..
●	22	17	39
N	25	22	..
☉	30	03	30

June			
	d	h	m
E	1	11	..
P	3	04	..
☽	5	19	12
S	7	17	..
☉	13	06	24
E	14	22	..
A	15	01	..
☽ _j	20	21	44
●	21	06	41
N	22	04	..
☉	28	08	16
E	28	17	..
P	30	02	..

July			
	d	h	m
S	5	02	..
☽	5	04	44
E	12	06	..
A	12	19	..
☉	12	23	29
N	19	12	..
●	20	17	33
P	25	05	..
E	25	22	..
☉	27	12	33

August			
	d	h	m
S	1	09	..
☽	3	15	59
E	8	13	..
A	9	14	..
☉	11	16	45
N	15	21	..
●	19	02	42
P	21	11	..
E	22	04	..
☉	25	17	58
S	28	15	..

September			
	d	h	m
☽	2	05	22
E	4	19	..
A	6	06	..
☉	10	09	26
N	12	06	..
●	17	11	00
E	18	13	..
P	18	14	..
☽ _s	22	13	31
☉	24	01	55
S	24	20	..

October			
	d	h	m
☽	1	21	05
E	2	02	..
A	3	17	..
N	9	14	..
☉	10	00	40
E	16	00	..
●	16	19	31
P	17	00	..
S	22	03	..
☉	23	13	23
E	29	08	..
A	30	19	..
☽	31	14	49

November			
	d	h	m
N	5	20	..
☉	8	13	46
E	12	11	..
P	14	12	..
●	15	05	07
S	18	12	..
☉	22	04	45
E	25	15	..
A	27	00	..
☽	30	09	30

December			
	d	h	m
N	3	02	..
☉	8	00	37
E	9	20	..
P	12	21	..
●	14	16	17
S	15	23	..
☽ _d	21	10	02
☉	21	23	41
E	22	22	..
A	24	17	..
☽	30	03	28
N	30	08	..
P	31	23	..

LUNAR DATA

- | | |
|--|---|
| <ul style="list-style-type: none"> ● -- new Moon ☉ -- first quarter ☽ -- full Moon ☉ -- last quarter | <ul style="list-style-type: none"> A -- Moon in apogee P -- Moon in perigee N -- Moon farthest north of Equator E -- Moon on Equator S -- Moon farthest south of Equator |
|--|---|

SOLAR DATA

- ☽_m -- March equinox
- ☽_j -- June solstice
- ☽_s -- September equinox
- ☽_d -- December solstice

Greenwich mean time (GMT) or universal time (UT) is the mean solar time on the Greenwich meridian reckoned in days of 24 mean solar hours written as 00^h at midnight and 12^h at noon. To convert the above times to those of other standard time meridians, add 1 hour for each 15° of east longitude of the desired meridian and subtract 1 hour for each 15° of west longitude. This table was compiled from data supplied by the Nautical Almanac Office, United States Naval Observatory.



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